

SEQUENCE LISTING

<110> Sun, Yongming
 Recipon, Herve
 Salceda, Susana
 Liu, Chenghua
 Turner, Leah

<120> Compositions and Methods Relating to Breast Specific
 Genes and Proteins

<130> DEX-0249

<140>

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<150> 60/243,802

<151> 2000-10-27

<160> 282

<170> PatentIn Ver. 2.1

<210> 1

<211> 207

<212> DNA

<213> Homo sapiens

<400> 1

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<210> 2

<211> 503

<212> DNA

<213> Homo sapiens

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<221> unsure

<222> (492)

<223> a, c, g or t

<400> 2

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cggcaggagt cttatttcac ctctgtagg tttactaaagt gtgttttagt ttcaaaagaa 120

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accagtgttt ccctagtact taacatgggt ttattacatt tttttgacaa aaattcaaaa 180
ttacatatat tttgttcttc attagcaagt cacacatttt aaaatggcac actcccttcc 240
tcttcgtgtt gttatttgtt tattttaagg actgtttctg ggtagataag ctctgggtta 300
ttttaaaata cattttacaa tggaaatggc ctggacttga actgaaaagg aaacattatc 360
tgtgttattt cagacacatc agtgatcagt ttagaagata ggatgatttc actaagctta 420
taattcatct taaagctcac ctaaataaaa gtaagtgact aaaatgatct ttttcttcca 480
ggagaggtag gnttaattaa ttg                                     503

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<210> 3
<211> 603
<212> DNA
<213> Homo sapiens

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<400> 3
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accagtgttt ccctagtact taacatgggt ttattacatt tttttgacaa aaattcaaaa 180
ttacatatat tttgttcttc attagcaagt cacacatttt aaaatggcac actcccttcc 240
tcttcgtgtt gttatttgtt tattttaagg actgtttctg ggtagataag ctctgggtta 300
ttttaaaata cattttacaa tggaaatggc ctggacttga actgaaaagg aaacattatc 360
tgtgttattt cagacacatc agtgatcagt ttagaagata ggatgatttc actaagctta 420
taattcatct taaagctcac ctaaataaaa gtaagtgact aaaatgatct ttttcttcca 480
ggagaggtag gattaattaa tgggtataatg tgtggaatat ttcaggctta tctgattctt 540
ccatcttaaa tctttgagag ttttaaacac attatgtgtc cattactggt tatatcacat 600
aga                                     603

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<210> 4
<211> 534
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (133)
<223> a, c, g or t

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tgacaggacg gangggagga aagaagggaag aggaaaaaag aaaggacagg agaaaaggag 180
gaaggcttct gccaaaaaat taaaatcaaa tttttgacat tcttttgtt tgcccttttt 240
gaacaaaaat gacacttgcc agacaccagc ttccctggccc atgtcctggt ccttggtatc 300
cagatgacag cagtgtgatc ctgctgtgag ttccctccgt gccttctgat ctgagttcct 360
gaaagcagag agccactcag gaactgctgt ctctcaggcc agctggctgg tgatgggctt 420
ttgaagactc tggctctctc tctgctgga agagctcccc agggggccacc aggagccagg 480
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<210> 5
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 <212> DNA
 <213> Homo sapiens

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 gcactgtgcc agacactgga gataataaag aaaaacagca ctgggcctat aattggggagt 180
 ctagatatac gatattgaaa tgcagctgac aatgcaagga gcaagaggac tcgcacagtg 240
 gtgcatggca gcttctgttc attttctggg cacagaaagt gcgatggaag ggaatgagaa 300
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 gacaggagaa agggaggaag gcttctgcca aaaaattaaa atcaaatatt tgacatttct 420
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 cctgttcctt ggtatccaga tgacagcagt gtgatcctgc tgtgagtcc ttcctgtcct 540
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 ctgtgggctc cagtattctg gcgagcatca gcttattctc ggcttagtct tcttgcctca 840
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 ctgtaaaatc caagctctgc acaaaacc 928

<210> 6
 <211> 368
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (305)
 <223> a, c, g or t

<400> 6
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 aacatagaat aactctttat tgactcaaga ctggaatttt cagaaaaagt taaattttta 180
 tttttcttag aattttcaga aaagtttaat agatctgaga cattttttaa tcttttaac 240
 tttctagcta tttgtgaata tgcttttctt ctttttaaat aaatataata gctggtagtg 300
 aaganagcta ttgatgcata tttttatttg gatattctat tgaactctta attggaataa 360

tttttcagt

368

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 <211> 583
 <212> DNA
 <213> Homo sapiens

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 <222> (61)..(80)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (495)
 <223> a, c, g or t

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 taattgggat ttattcaaat ctctctttat atccatccca taaagttttg taatttttcc 180
 ttattggcct aacaattcct gtaaagatta ttgttaagta gttaataaatt ttgttaatca 240
 tgatgagttt aacactttta ttttattaca tgtgctcata tgttgttgct gacactaaga 300
 aacctatagg tcaaaagatg caaactaggg ccacatgagc acggcagcac ccagccagga 360
 ctctgctgca gctgccgttt gtagatggag ctctctgtct ccaaagaagc acaggcctgt 420
 tgttcttctg gttgtgctac agtaaaatga acctggggtt tctgaacatg tggttgaatg 480
 tcagttgcta cctancgttt cacttgatgat attgatttta ttaactctaa agttatgtga 540
 atgttaacta tttctcatat ctatatctta ttcaaaatct ggg 583

<210> 8
 <211> 118
 <212> DNA
 <213> Homo sapiens

<400> 8
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 tatgttttctt aattgtacca tgaattacaa aaacctatg gcaagatcag tcttattt 118

<210> 9
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 9
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actattatat ccatttatTT aagtttctaT agactatact gcctaaaaaa atagagttga 120
tcttagtcaa atcactttaaT tcaggaacct ttaagattca gtttaatcag ttttgtatat 180
aaagtattag acttactttc accatttttg cccaaaaaca aacttctgta cttcattaaa 240
taacatcaac aaaagtaaaa agctaacatc aacctaggaa aaccattttc accgtaacag 300
ttatgtatat taactatat atatactttt aaattagtaa aaaaaagggt aaaagacatg 360
aacaattatc aaaggaaaaa aatcctgaaa tattcaaatg ttacettac taaaggaatt 420
cttaatctgc tgattatgtt tcttaattgt accatgaatt acaaaaacct attggcaaga 480
tcagtcttat ttaaaaaaaa aa                                     502

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<210> 10
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<212> DNA
<213> Homo sapiens

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<222> (83)..(211)
<223> a, c, g or t

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<220>
<221> unsure
<222> (214)
<223> a, c, g or t

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<220>
<221> unsure
<222> (300)
<223> a, c, g or t

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<220>
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<222> (304)..(324)
<223> a, c, g or t

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<220>
<221> unsure
<222> (368)
<223> a, c, g or t

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<220>
<221> unsure
<222> (381)
<223> a, c, g or t

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<400> 10
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ctcaagtttg acttattgtt tannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nacncgtatt cctttctgga gactctaggg 240
gaatctcttt tcttgccctt tctggcttct agaacctgcc tacattcttt ggctagtggg 300
cccnnnnnnn nnnnnnnnnn nnnngtggct ggtcagtctt tctctgatgt tatctttctg 360
gttctganc c ttcacatctc ntcttcgcca 390

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<210> 11

<211> 266

<212> DNA

<213> Homo sapiens

<400> 11

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cttcagtggg aagagttctc atattaaatt gaattgggtac ttaagaaagg gctttaacta 60
ggcaaaaacct tgggagtttt gaggtccctg tggacttgcc tggcatgcct gggagatttg 120
taggtatctt ctttctacac ggattgtgtt tctgccctca aggaaaatag ttcactttga 180
ccactgtaaa tgatgtagta tttaaacaaa aggaaaagca cttcattgtc tgctctaaaa 240
ctaaaatggt aagaaagaga ggtggc 266

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<210> 12

<211> 380

<212> DNA

<213> Homo sapiens

<400> 12

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tgtcatggga agtggcgccc actgccacat ctgctatgag gctcttcgcc atcgttggtt 60
gctggaaatt tggatacagt aaatgggtata taaggcttct ttttgcttgt gcaccagaag 120
tctttgtccc agcctccaga tcagcagtcg gtactccctt ctcccaacct gtaggaaagta 180
cttgtgaaaa gttatctatc cctggtctga gtgggaggtt cttaacctca ttgatgtttt 240
agtgtgacct gtctacatct gtgtgctccc ttctgctatc gcagaggata tgagaaaaga 300
aacaatatga caaaaagtgg agatagcgcc ttccatttca ttcttcattt ggtatgggta 360
tagttaagag aggtgagcca 380

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<210> 13

<211> 871

<212> DNA

<213> Homo sapiens

<400> 13

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ctggaactac aggcgcatat caccaagcct ggctaatttt ttaattaaga cagggctctac 180
tatgtggccc aggcgtggtc tgaactcctg gactcaagca attctccac tctggcctcc 240
caaatgtgata ggattacagg catgagccac cagccccagc ctggctcacc tctcttaact 300
ataaccatac caaatgaaga atgaatagga aggcgctatc tccacttttt gtctatttgt 360
ttcttttctc atatcctctg cagatgacga agggagcaca caaatgtaga caagtccac 420

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taaaacatca atgagggttaa gaacctccca ctcagaccag ggatagataa ctttcacagt 480
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acaagcaaaa aaagcctatt accattacct gtatccaaat tccagcagca acgatggcga 600
agagcctcat agcagatgtg gcagtggcgc ccacttccca tgacaaaggg aggtaggcat 660
gattcatctc tagtgcatgg ggacggttgc cttttgcccc aaatcaactc aagaccctt 720
tccaccatat gtctgtatgt aactctaaat gcattcttaa gacttaagaa taaaaagcca 780
ctgctacctg gcaagtggat gaggcaaaag agaagacata ccccaagaa ctatagcact 840
ctgtccaaa ttacagaact ttctaaacgt c 871

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<210> 14

<211> 411

<212> DNA

<213> Homo sapiens

<400> 14

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caaaaatgtaa atataactaa ttattttttc acttattggt agcatttagt attttatgca 120
taaaaactttt ttaccacaaat aaatttttga agtttaaatt ccacaaatga tactaatgaa 180
agtataaatc attttggggtt gttttttaaa aaattatggt tcaatctgtc attattggaa 240
taaagtgtat aaactgcgatg ttataaaaacg gctttacaca tatataactc atgaactcaa 300
gagaaataat attttttagga aagaagagta tctctagatt tttaataata attaaatttc 360
tttaaaagac tgaagataga aaagagaaat taaactatgt attgacttaa t 411

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<210> 15

<211> 737

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (657)

<223> a, c, g or t

<220>

<221> unsure

<222> (709)

<223> a, c, g or t

<220>

<221> unsure

<222> (716)

<223> a, c, g or t

<220>

<221> unsure

<222> (721)

<223> a, c, g or t

<400> 15

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atgccagggtg agtgggacaag gcttggggaa gggtgacgat acctagagac atgtcagcct 180
ttgggtcaga gcttgcctaa tctcatgggg aactgatggg tgggaataggc actctaggct 240
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ggccaagctt ctgactgttg aagttagggt cagaatggag aggccagcat gtgtgtgagg 360
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tacctgcga ggggtgaatg cactgggcca catatctcag tggtcagatc caggatctca 480
gcagtcactc ctatcaatca gagatcggac catggcaggc acactcagca aagtccccc 540
tgatccagaa gacatgtgag aattctgcat catcttcccc tccataatcc tgaggacagt 600
gagagccaag gtaaggacct tgacacacag attcgttacc aggaggaatt ctttgcntac 660
tgaatcattc tgaatatatc ggatttgtct aaatagatcc cacctgcent cccatntact 720
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<210> 16

<211> 1082

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (90)

<223> a, c, g or t

<220>

<221> unsure

<222> (1002)

<223> a, c, g or t

<220>

<221> unsure

<222> (1054)

<223> a, c, g or t

<220>

<221> unsure

<222> (1061)

<223> a, c, g or t

<220>

<221> unsure

<222> (1066)

<223> a, c, g or t

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 tgaccccaat gtcaccagct aagggtgggn ctgggtttaa accaggccag tctagcttgt 120
 aacctctatg tcatattgga atagactcta gcacagtggt tataggttcc tactaaaaga 180
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 gagaactcaa gaaagtcttg tcaactcagt gagtgttggt gtgtgaggag aatcaagtga 420
 gaagtgcctt tagaacaatc catgcaggta tgaaggagct ctaacatgcc aggtgagtg 480
 acaaggcttg ggggaaggtg acgataccta gagacatgtc agcctttggg tcagagccctg 540
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 aggggtgcag agaattcaga aatttgtgtg tgttcacgga ggggaggcca agcttctgac 660
 tgttgaagtt agggtcagaa tggagaggcc agcatgtgtg tgagggactc tgagatggga 720
 ggctgacaat taggacaatg ggctttgccc atggagccag aatgttacc cgcagggggtg 780
 aatggcactg ggccacatat ctcaagtggc agatccagga tctcagcagt cactcctatc 840
 aatcagagat cggaccatgg caggcacact cagcaaaatc ccccatgac cagaagacat 900
 gtgcgaattc tgcactcatc tccccctccat aatcctgagg acagtgaag ccaaggttaag 960
 gaccttgaca cacagattcg ttaccaggag gaattctttg cntactgaat cattctgaat 1020
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 gg 1082

<210> 17
 <211> 128
 <212> DNA
 <213> Homo sapiens

<400> 17
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 ggcgcagt 128

<210> 18
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 18
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 atctcatact ggggtgctga caggcagcgt tctctctctt gtggcgcttg ggaatatagc 120
 attaatcaca cacaacaaa aacgatggca aattgtaatg agggctatga aaggagatga 180
 agggcaagat cactgagggg tgggactcag aagaatcctt tctgaggaca tgacctgtca 240
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 tccactcact ctcatgaatt tgccaagtcg cctggggaga atggggcctg aactctggac 360
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 cttgtgact tgactgccct attctagcat catggaaaa acatg 465

<210> 19
 <211> 539
 <212> DNA
 <213> Homo sapiens

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 cattctccat cagctgggtca aaggaacagg agctctgcat cctgtcctgc tcagtagagg 180
 aggaaaggag acagctcctc cgggaaatct agaggaattt gcattctctg cctgagctgg 240
 cttggggcca gctttgtgga atcctgggtgc cagttctttt tctgcttcag gggctatttt 300
 ttaaaaaaat cagtagttac attttatggt taccaataga tttatatagc aaatgatatt 360
 tgttttttat ttaaagccac aatatcaagt gtctttttta aaatataaat aataatcctc 420
 atggtatgca gatgtagcag aaaattgtgc aggtgggtat tgggcaactg gatttgggga 480
 aatgctgctg catgtcatgc actctccata ggtagggttt cccctttatt tctctccctc 539

<210> 20
 <211> 641
 <212> DNA
 <213> Homo sapiens

<400> 20
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 cattctccat cagctgggtca aaggaacagg agctctgcat cctgtcctgc tcagtagagg 180
 aggaaaggag acagctcctc cgggaaatct agaggaattt gcattctctg cctgagctgg 240
 cttggggcca gctttgtgga atcctgggtgc cagttctttt tctgcttcag gggctatttt 300
 ttaaaaaaat cagtagttac attttatggt taccaataga tttatatagc aaatgatatt 360
 tgttttttat ttaaagccac aatatcaagt gtctttttta aaatataaat aataatcctc 420
 atggtatgca gatgtagcag aaaattgtgc aggtgggtat tgggcaactg gatttgggga 480
 aatgctgctg catgtcatgc acctctccat aggtagggtt tccccctta tttctccctc 540
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 agttagtctg atcatgggtg gggcatgggt gttgggttag a 641

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 <211> 406
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (379)
 <223> a, c, g or t
 <400> 21

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acattcatgc agccagcctt accctagagtc acagtcgaatt gtggccaact tggcaagatt 180
tgaacatcac tgataagcaa tctttctctc aatgctgcat ctctccagct tgtttcttcc 240
ctaccatccc ccacgtatga ctaaaagttat agcattgact gaaatctttg ggattaaagc 300
ctctgtagct gactgagaaa aacctgttga gccattacct acaattttaca caaacaatt 360
tcttcgattt gtctttttang gctggcccga aggcatttac atttga 406

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<210> 22
<211> 467
<212> DNA
<213> Homo sapiens

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<400> 22
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ctctcgcttct aggccttttg gtggcatttt ctagtctacc tctaagctct agggaaatcg 180
gtggctaaaa tcttccctcc tgctgagact cagagaatac catgttggcc aagatctcta 240
aaacaatcaa acctggcagt attgagttac ctctctctta tcataaagtc tttcctcact 300
tcctccttat tgtgaacttt cttaagaagt gagtccaggga ggaagcagtg acatgaattt 360
attaacttga ctacagacttc taaagacaac acaaaactggg cccccattc agagagtgc 420
agggaaacc cgtggcataa ttagttacta cgagtttcca aatagga 467

```

```

<210> 23
<211> 1328
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (300) .. (472)
<223> a, c, g or t

```

```

<400> 23
gcacagattt agccttggtt tttttttctg ggaagtataa aagacttttg tgttctgtct 60
ttttgttttc aatttctctc tagaggaatt taaaaccgga tatttccatc ttaaagtctt 120
tgagcaagtc tgtcaagggtg tccatatttc ttacctgtgt cctctcagca tcgaaagtgt 180
atctctgtta cactcatggt tgctgttcac aatggagtac taatgaaata gcaaaattaa 240
gctaccggca tgggtgcta aactgaaact aaaaatcggt ttggagcttt tctgtttggn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnaagaaaag 480
aaaaggggtca ctgtggcacta ggtcttcaca ggtaagatt cagagtgtga taggaagcac 540
aggctcaggc acccgggtct aatcaatgac aatctcgctt ctaggccttt tgggtggcatt 600
ttctagtcta cctctaagct ctagggaatc gtgtggctaa aatcttccct cctgctgaga 660
ctcagagaat accatgttgg ccaagatctc taaaacaatc aaacctggca gtattgagtt 720

```

```

accttcctct tatcataaag ttttctctca cttctctcct attgtgaact ttcttaagaa 780
gtgagtcacag gaggaagcag tgacatgaat ttattaactt gactcagact tctaaagaca 840
acacaaactg ggcgccccat tcagagagtg acagggaaac cccgtggcat aattagttac 900
ctacgagttt ccaaatagga ttggaagga gacatacaac taggtcgccg gcgtggcaca 960
tggtcttcct gaagccagca ttgcctggcc aaggaagcct tgcagaacag atgagatttc 1020
agctgggagc tgcagccaag tgggatttgg ccttttgggg agaagggaaa gggcattcaa 1080
aggccaggga cagagtatgg tcaaaagcat ggagatgagg aagaggggac cagagcagag 1140
ggtcaggttg gaaagcgagt tggggccaat ctgcaaaagg gctgacgtgc caggtaaaaa 1200
acaggagcac cgtttagttt tgtcggatca tttcaggttg aagggcagtg ggaatgttgg 1260
agaaaacact ttttgggtgc gttacattga atctgctcat ctataagaat aaaactttat 1320
ttcataga 1328

```

<210> 24

<211> 550

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (352)..(371)

<223> a, c, g or t

<400> 24

```

ctcacacctc ccctgggtcca gatcatgatt caggctcttg ttctaggatt cctggcttat 60
tatctggttt atttcaataa caaggacaat aagtcatggg tatgattttt ctgtttcatg 120
gagtgagtga acattttatc tcattccagg aatttgtttt tttccaacta ttgttgcttt 180
ttgggttggt tttaaatatt cctttacca aatttcatt cattagtcta cattttcagc 240
tttattagca taggagtcct aataacattt tgtgtatggt ttcacacct agtgattggt 300
tgctaatttc tcaccttttc tttagggtcac tgttctttat acattgggta tnnnnnnnnn 360
nnnnnnnnnn ngcattttaag tttttacttt ttatgagaca aatgtatttg cgttccatag 420
atgtcagtta gaaatgtttt caacatcatg gttctctaca aactttgtga tttcagttac 480
atttccacat tgactcaaca gttatttaat agtgagctct ttttttttta agacgtagtc 540
tgactctggt 550

```

<210> 25

<211> 150

<212> DNA

<213> Homo sapiens

<400> 25

```

gattcagccc gtgatccttg actggatcct gggtgaaaagc aaaagcagct ctaaaggaca 60
ctttgcagac taaatgttag ctaacaccat tgtatcagtg agaaagtgca gagtgtgggt 120
agtccattga ggctctgtag aagaaaagtc 150

```

<210> 26

<211> 192
 <212> DNA
 <213> Homo sapiens

<400> 26
 aaaaagtcaa tgtcataaaa gacaaaagaaa ggctgaagaa gtgattcagc ccgtgatcct 60
 tgactggatc ctgggtgaaa gcaaaagcag ctctaaagga cactttgcag actaaatgtt 120
 agctaacacc attgtatcag tgagaaagtg cagagtgttg tgagtccatt gaggctctgt 180
 agaagaaagt cc 192

<210> 27
 <211> 747
 <212> DNA
 <213> Homo sapiens

<400> 27
 gagctttgca gggatttagc ttttctcagg gccacctgcc ctcaggcttc ctgggcccctc 60
 atacttcttc ttgtttatat cttatctgcc tttgggggaa tgaccttaga ggaattggtg 120
 tgagtaagcc atgaggttct tgggccacct ccaccagcc aagggcagct ggcagctggg 180
 cactttacatc cagcaaggca gaagcaaccc tggctttgaa gtcagactgc taggggtgagt 240
 ctgaatggcc tcggggaaag ttccctctga gccttcgttt ttttcaacttg tgaaggcgat 300
 agtctcgctc agcttgaggg tttatcaggg ggattcagtg agaacctcat ttgaagcagc 360
 tgcttttagtt cctaacacct aataaatgtt taaccactta cctctctctc ccaccaccct 420
 ttcaactttg aacctcttcc tccatgtcat ccttctctaa ggcgctgacc ttttggccac 480
 aaagaatggc tctttttggt cccatcagga ctagaattct tatctttttg ttgcttgccc 540
 ctgggtaatca aagaaccacc aacacatttg caaggcatct ccagccttct cgttctggcc 600
 gcccctctct gtcttaggga gagtgtctata ctggcatggt gatgagatga acgaaagggc 660
 agtctctggc tgttttctgc tgatgaggat gtgctgagca gcctcctgca aatgagaagc 720
 agggaaaaga ccaaactagc ttagctc 747

<210> 28
 <211> 184
 <212> DNA
 <213> Homo sapiens

<400> 28
 taagctcggg attcggctcg aggcattgcca gtctttgggg catatggatg gtggatgttg 60
 ctgtcctttt caccctctga cattgttgat gaggagaaac ttccaatttt gatgtagtcc 120
 acaatattaa tatttctcat agggcaccac acccagccta tgttatcttt tagaagcttt 180
 attg 184

<210> 29
 <211> 217
 <212> DNA
 <213> Homo sapiens

<220>

<221> unsure

<222> (97)..(161)

<223> a, c, g or t

<400> 29

```

ctcaattatt ctaggaatct atgctgaata tgcctctaac aatacaaat atgtattact 60
taatgttatt aattatagta ttatttaatt tgcgaannnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ntageccatat aatggagtagc 180
catgcagata aatcagaaac tagagattgg ttacctg 217

```

<210> 30

<211> 543

<212> DNA

<213> Homo sapiens

<400> 30

```

tgaggaagcc tgaatgggaa tgaaaaacaa ataagaatca aaagcagagg gctgtgtctt 60
ttatttttgt attcttacac cgtatgaact ttattaagaa ctaaaatcat gtgatggtaa 120
cccatgggca cacgctgagt acaaagttgg aaaattgtac cagcatcatt aactgggggtt 180
gctttgtgtt aacattgtgt atcattcaca gatgtcaaca ataagagaac acatctctct 240
atatataaatt gttacaaaaca ttttaaatta taaggaaaag aaaaaaaag atgcaaaagt 300
tcaaaagacta aaactcacaac atcctaccga cagagaatac ttaggatagc taagatctca 360
gtgttcattc aaacttctaa actcaaagac tcggatttat gcaggaaagt gaacatgtct 420
tgtgtcacca gatctgtcag tgaagctgat tatagtcttg ggataaatat gagagtaatg 480
tgacagtggg ctggggaactc tgactgtggg ctctgccctc tggatgcaga gactccaagg 540
cac 543

```

<210> 31

<211> 283

<212> DNA

<213> Homo sapiens

<400> 31

```

gcttcaagct tcctgctctc ctcttttgcc atattattga gcctggaatc tgagtgggag 60
aggacgacag aggggtctgg cacaaggaag ccattgattg aggccattac tgcaatcaac 120
ccaccaccaa taaaagcac tggaggagag ggcttgacat agacacaaaa cataaaggaa 180
gggggtgaaa ggaagggaag agattgagga aaaaaataa aaataaaaga tggctgggta 240
aggaagaag agatagggaa gagagacaga aaaggtagaa tgc 283

```

<210> 32

<211> 418

<212> DNA

<213> Homo sapiens

```

<400> 32
aaaaaatcct tcattgtgtct tgtatacatc tgcagaagac cagtagtgta cattttcttg 60
gctgtagcaa ggggccaaaga aaggaagtag taagcagttt ttcaagtcct tctctctctt 120
tttttatttt gttgggttca atgcttcctg ctctctctct ttgccatatt attgagcctg 180
gaactctgagt ggggagaggac gacagagggg ctgggcacaa ggaagccatt gattgaggcc 240
attactgcaa tcaaccacc accaataaaa agcactggag gagaggggct gacatagaca 300
caaaacataa aggaaggggg tgaaagggaag gaaagagatt gaggaaaaaa aataaaaaata 360
aaagatggct gggtaaggga agaagagata ggaagagag acagaaaaag tagaatgc 418

```

```

<210> 33
<211> 172
<212> DNA
<213> Homo sapiens

```

```

<400> 33
cagactggga ctctggaaaa tcctaaagca ttatagaact tggggcttgt cctttgactt 60
catggttttc aaacccagca tggtgaccca gtagtgggct gtccaatcaa ctgagctctt 120
gaaattggaa tagaataaaa tagaaatatg agcatattcc catctataga aa 172

```

```

<210> 34
<211> 128
<212> DNA
<213> Homo sapiens

```

```

<400> 34
ggcctccgat tgtccacag ttagttgttc ctcgagggca cccctcctgc tgctccttgg 60
atactccagg gcccgaggag ccgagactca ctggagtgtg ggcattggcca tccagagagc 120
tctgatca 128

```

```

<210> 35
<211> 619
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (128) .. (416)
<223> a, c, g or t

```

```

<400> 35
ggcctccgat tgtccacag ttagttgttc ctcgagggca cccctcctgc tgctccttgg 60
atactccagg gcccgaggag ccgagactca tggagtgtgg gcatggccat ccagagagct 120
ctgatcannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

```

```

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngctt 420
tggctctttg ggggtgctga aaaagcaaaa ccagggtctgt ggggtagaag gcgccctggc 480
cacacacagg cattgccgc tctgggggtcc gcagagtcctg tgtgacaacc tggtcactcc 540
gatctagcag cgtatttgaa tgaatgagtg acagcttaat gaagtagcca agtacctga 600
tttgaacgta ggagccggg 619

```

```

<210> 36
<211> 356
<212> DNA
<213> Homo sapiens

```

```

<400> 36
cgacagataa gtcagatatac gaatatagac attaaaagat ctggggcact aggcgtgtacc 60
ctgttattgt cagtggctct ttagtcctta aacaaggggtc ttgcctccta cttttttttt 120
gttatggtag aaataaatgc ccaccgagt ttcatcact cactattatt ctatctttgg 180
tgtgcctgta ccatgttccc ttaacaatcc tcaattatga aacatttagg cagtttataa 240
acaatactgc aatgaacaac ctagtgcata ctttttttgt gtgtctctct tttattattt 300
cctagaagtg agccctagaa atggagtctc tgagtc meta tgacacattt tatagc 356

```

```

<210> 37
<211> 158
<212> DNA
<213> Homo sapiens

```

```

<400> 37
aaggaattag attccacatc tcaatctaag gagcagcaca aatatgcaga gaggaagga 60
attgattgtg gccctctttg aaaactatct caggccatcc ttggggccact tcaattcata 120
gctcttcctt atgcaaaata cactcacctc ttgcattt 158

```

```

<210> 38
<211> 585
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (159)..(279)
<223> a, c, g or t

```

```

<400> 38
aaggaattag attccacatc tcaatctaag gagcagcaca aatatgcaga gaggaagga 60
attgattgtg gccctctttg aaaactatct caggccatcc ttggggccact tcaattcata 120
gctcttcctt atgcaaaata cactcacctc ttgcatttnn nnnnnnnnnn nnnnnnnnnn 180

```



```

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ctcagtgtgac tgcagtcaag 300
gtgtcagatg agctatatct tcactctggag gcttgacagg ggaagagcct acctccaagt 360
tcattagggt ggtggtagaa ttcactccat tgtggatgta tgactgagga cctctggcttt 420
ttgctagcca tcagaagagg ccagtcttgg gtccctagaga ccacctgtgg ctcccttaca 480
atgtgggctt tctcaacatg gctacttact gcatgaagcc agcaaaaaga atctcccagt 540
ccagtatgct aagacagagc cttgttataa cataagtcca ccttc 585

```

```

<210> 39
<211> 295
<212> DNA
<213> Homo sapiens

```

```

<400> 39
gggggggggca gtagtttctg aagagagagc taaactgcat gagcagatgc ttagccaatt 60
tctaaaaatg gaatgggagg tagaaatttc acaggtgggt gctggtttgc agcatttcca 120
cataactagga tacatcatca caagatgttg tctgcacagt ggtgctataa ctgctagtaa 180
agccacttgc tctggaatgc atggtgatag tagtgaatcc ctaatgtcag tgcaatgctt 240
tacttatttg ctataaaatc ctttcatagt cagaagcact gttgtgttcc tggca 295

```

```

<210> 40
<211> 302
<212> DNA
<213> Homo sapiens

```

```

<400> 40
gcggggggggg gggcagtagt ttctgaagag agagctaaac tgcagtgcga gatgcttagc 60
caatttctaa aaatggaatg ggaggtagaa atttcacagg tgggtgtctgg tttgcagcat 120
ttccacatac taggatacat catcacaaga tgttgtctgc cagctgggtgc tataactgct 180
agtaaaagcca cttgctcttg aatgcatggt gatagtagtg aatcccttaa tgtcagtgca 240
atgctttact tatttgcata aaaatctctt tcatagtcag aagcactggt ggtgttcctg 300
ca 302

```

```

<210> 41
<211> 346
<212> DNA
<213> Homo sapiens

```

```

<400> 41
aagtaattaa cttgatcaaa ctcatctttac agatgaggaa actgattcca cctccatgc 60
tcttcacctg cattctaaac tcttcacagg cctcccttac caggcagagg caaattgagg 120
aagtggacac agcatttctc ttccttgttg tttgacatgc aaagcacttt agactatatt 180
tagtaacctaa ttgatgtggc agcaggggcc gcctgggatg ttgtggcatc atttttgctc 240
tcaatgagac acgatagggg tggtttgggt gtggtttcaa aactaaagac cctccagcag 300
agcctgtcaa gtaaaaaaag ggtgactgct tgggtgccat accagg 346

```

<210> 42
 <211> 468
 <212> DNA
 <213> Homo sapiens

<400> 42
 aagtaattaa cttgatcaaa ctcatTTTtac agatgaggaa actgattcca cctccatgc 60
 tcttcacctg cattctaaac tcttcacaggg cctcccttac caggcagagg caaattgagg 120
 aagtggacac agcattttctt ttcccttggtg tttgacatgc aaagcacttt agactatatt 180
 tagtacctaa ttgatgtggc agcagggggcc gcctgggatg ttgtggcatc atttttgctc 240
 tcaatgagac acgataggga tgggttggtg gtggtttcaa aactaaagac cctccagcag 300
 agcctgtcaa gtaaaaaaag gttgactgct tggttgccat accaggcaca ggtagcatg 360
 aaacaaaagt tagtgtccaa ggagagggag cagggtgtct cctttgggtg agctttgcaa 420
 ggggacttgg gacttggtg gaaaaggtgt tttttttagt tgtatgtt 468

<210> 43
 <211> 107
 <212> DNA
 <213> Homo sapiens

<400> 43
 ttcaccgtgc tgtgtgaatt gtggctttaa atgtattcct gtcaattcca tatattttta 60
 aaatgttgtt tttagagtat gtgcaagttt ggggcatttt tgagggg 107

<210> 44
 <211> 352
 <212> DNA
 <213> Homo sapiens

<400> 44
 gaacatgatt gagttagaaa ccagtgtggc ctgggactgg gaagctcatt aaaggaattg 60
 ggactttaaac tgggaagggc aagttggctc tagatccata gaaactgaag acaggggaag 120
 agagagatgg tattatagat ggaagaaggg gcagtgggtc atggaataaa tattggtgag 180
 caggggagca aaccaaaagg gtaattggga gattctgagt ttccaaggct attaaaaatgc 240
 agttccaggc cctaggagg agagttccag actgttttct ctacactgct ataattcctt 300
 acactgctgg gagcagtttc tttagacatac ttgcaactg cagagggctt tt 352

<210> 45
 <211> 356
 <212> DNA
 <213> Homo sapiens

<220>

<221> unsure
 <222> (98)
 <223> a, c, g or t

<400> 45
 gaacatgatt gagttagaaa ccagtgtggc ctgggactgg gaagctcatt aaaggaattg 60
 ggacttaaaa ctgggaaggg caagttggct cctagatncc catagaaact gaagacaggg 120
 gaagagagag atggtattat agatggaaga aggggcagtg ggtcatggaa taaatattgg 180
 tgagcagggg agcaaaacaa aggggtaatt gggagattct gagttttcaa ggctattaaa 240
 atgcagttcc aggccctagg gaggagagtt ccagactgtt ttctctacac tgctataatt 300
 ccttacactg ctggggagcag tttctttgac atactttgca actgcagagg gctttt 356

<210> 46
 <211> 482
 <212> DNA
 <213> Homo sapiens

<400> 46
 ttgttgaaat tttgtttgac tgcttttagta caggagtata ttccccaaga caagagacct 60
 gagagctttt ccctgggttaa gataccaagg atgatttcca aatttttagac atccttcccc 120
 ttgttccacc aatttttttt ttcttctggg aaaatagcca ggatgattgc aaacataag 180
 cttgtaaaaa ggcaaaactc catggatgta agaaagtaaa ttctctgagg gccacacca 240
 tgataacgct ggaattttca tttaatctct aactcatttt ttgttgtttt tgttttttta 300
 aactcaaatg tgtctcttta attgaggtca cttacttggt tgggagatta atattctggt 360
 ggggaaactt tcttttttaga gtttatattg ttttattcct tcagtcactc agtattacta 420
 atggggtagc ttttggaatt ttccatcccc cccactttca gattactttt ggtctttttt 480
 tt 482

<210> 47
 <211> 462
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (380)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (423)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (451)

<223> a, c, g or t

<400> 47

```

gggaggccct gcttctctgcg agctgtcccg gcaggacaga gactcttccc gccgcggccc 60
tgccattcca ggcctgaggct gtgagcagca ccatgacaag ctccagccgc agtggtctctc 120
aacagtgtgg gtctcttgacc acccgacgag ctggaagtgc agaccgctga cctcccttga 180
gaacctactg ggttcttgca gtaggctcct cagcgggtgc taaacacgcc actcagatga 240
ttctatgcac catcacattg gaaacttttt tcatctgact ttacttaagt agaagacttc 300
cctccgggat ggttctgaaag cttccttcat aggagcaagc ctttggcggg agagcactga 360
gcagacgtgc agcatctttn ctggcttcta ccgaaacacc atggatccag acgtgggttt 420
gtngtctgca cgtggaagcc agccctcgct ngggtgagcc tg 462

```

<210> 48

<211> 1609

<212> DNA

<213> Homo sapiens

<400> 48

```

atgaggctgc ggtcatcagg gctggaggag tttagaggag gcaggaagga ccttgccatt 60
ctcttatcaa ggaactgccca ggacctctgt gaagctgagg ccttcagcga gctcctccca 120
ggaccgtcgg agagtccag gaactctggct gtgctgattg gtacagctct cttcagattt 180
attctatata aagtaagcat attgtcaacc ttctctgctc ctttcaagca cctgagctct 240
ggcatcacia acacggagga tgacgacacc ctcagtacca gcagcgcgga ggtgaaggag 300
aacgcgaacg tgggcaacct ggccgcgcgg ccaccgccct ccggggaccg ggcccggggc 360
ggcgcgcccc gcgcgaagag gaagcggccg ctggaggagg ggaattgggg ccacttgtgc 420
aaactgcagc tggctctggaa gaagctgtcg tggctcggtg cgcccaagaa cgcgctgtgt 480
cagctgcacg agctgaggcc gggcctgcag taccggacag tgtcgcagac gggcccggtg 540
catgcccccg tcttcgcggt agcgggtggag gtgaacgggc tcacgttcga gggcacaggc 600
cccaccaaga agaaggccaa gatgcgcgcg gcggagctgg cactcaggtc cttctgtcag 660
ttccccaacg cctgccaggc gcacctggcc atggggcggg gcccgggccc cggcacggac 720
ttcacctccg accaggccga ttccccgcac acgctcttcc agggatttca gccccggcg 780
ccgcgccccc gactcgcggg aggcgcgcgc ggggaacgcg cgcttctgtc cgcggcctac 840
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gcggcccccg gcgagcgcaa ccccggtggt ctgctgaacc gcctgcgcgc cgggctgcgc 960
tacgttgttc tggcagaacc ggccgagcgg cgcgcgcgga gcttctgtat ggcctgtagc 1020
gtggaaggca gacgttcga gggctcgggg cgcagcaaga agctggcccc gggtcaggcc 1080
gcgcaggccg cactgcagga gctgttcgac atccagatgc ccggccacgc gcccggcagg 1140
gccaggagga cgccaatgcc gcagggtctg cttccacgtg caggaccaca aaaccacgtc 1200
tggatccatg gtgtttcggt agaagccagc cacgtctgtc cagtgctctc 1260
ccgccaaaag cttgtctcta tgaagggaagc ttccagaggg aagtcttctc 1320
attaagtaac agtcaatgaa aaaagtttcc aatgtgatgt tgcataagaat catctgagtg 1380
cgtgttttag acaccgctga ggaagcctact gcaagaaccc agtaggttct caaggagggt 1440
cagcgggtctg cacttccagc tctgtcgggtg gtcagagacc cacactgttg agagccactg 1500
cggctggagc ttgtcatggt gctgctcaca gcctcagcct ggaatggcag ggcccgcgcg 1560
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<210> 49

<211> 272

<212> DNA

<213> Homo sapiens

<400> 49

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gctccacca cggttaaaat tgagctaagt gagtatcaaa cacacttggc cactttttta 60
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gcctcaccctc ctaccccttg cacacccagc aattcactac ttcaggcagc cctctggaaa 180
ctaaggacat ctaaatctaa aggtcaggat tctgtgagag aaaaccagtc caacatgctc 240
atgaaatcct aactgtgcac agggttggat gg                                     272

```

<210> 50

<211> 405

<212> DNA

<213> Homo sapiens

<400> 50

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ctgatcccca cctttgtcct agatgccaaa tatgcagctc tcatggggaca gccctggggg 60
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agtactgcac agcacctgga acgagcttcc aaatccactt ctccctccca ccatctcata 180
ttaattaatc ctgccagaga gggctgcaca ggcggaactg cctgagaata gcaaagaggt 240
tgtttcaggc ttgggaacta cagagacacc tgtaatgggg aagggatgct cttgccaagt 300
gagccgtggg cactgtctgg agccacacag gactttgcat taggtcatgc aaaccccaca 360
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```

<210> 51

<211> 294

<212> DNA

<213> Homo sapiens

<400> 51

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gggatgcata gtgagtccea aatcacctcc ttctcatgaa tccgggagtc cctggagctc 60
acggagggct tcctgggtgc ttgaaggggg ggaatccagt ctggggcgcc ccatcttccc 120
gccgcctgcg gttgctgcag ccttctgtct tcaactgtga ccctgggata ctgcggcggt 180
gctggctgga aggctggctt ccagagcag tgacccgctt tggcctgctt cctgagagct 240
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```

<210> 52

<211> 3381

<212> DNA

<213> Homo sapiens

<400> 52

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atggagaagt ttctgcagat cgcgcctcac tccctggcca tegtctctgg cccggcagag 60

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gcgcgcgcgc ggggaaagcc aggggcagcc cggcccgccg ccccgcccca gccccgccag 120
 ctgcgcgcgc accacatcgc ctacgagatc ttcgcgcgact tcaaaagccga gaacatgcag 180
 cacttctgga acaagaaggt cacggccgcg gtggccgaga ccttcttctt gggctggatc 240
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cctgacacag cgctggcaga ggctgagaca gaaggaaatg ctgtcacacg cagagctctc 3120
aggaagcagg ccacagcggg tcaactgctc gggaagccag ccttcacgcc agcaccgccg 3180
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tggggcgccc cagactggat tccacccctt caagacacca ggaagccctc cgtgagctcc 3300
agggactccc ggattcatga gaaggagggtg attttggact cactatgcat ccccgacttc 3360
catgccagag agctagacta a                                     3381

```

```

<210> 53
<211> 245
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (199)
<223> a, c, g or t

```

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<400> 53
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tagagcaaca tagaagagtg ccctgcagtg ggtgctgtaa tggagatgtg taccagggtac 180
aacaggaacc taagggggna aaggaacccc tgagttttatc ggggggcacc agggaagggt 240
tcaca                                     245

```

```

<210> 54
<211> 388
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (282)
<223> a, c, g or t

```

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<400> 54
tctctatcct gacttcatga tccacccgcc ttggctccca aagtgtctggg attcagggtgt 60
gagccatcat gcctgggtat tttgaaaacc ttaagataca cagggtataag atgtttattat 120
ttactcatcc attctgcaaa tatatacccc tattacctag actctgttga ggatagaggc 180
cgtgcttttt cccacgtgtg gactagagca acatagaaga gtgccctgca gtgggtgctg 240
taattggagat gtgtaccagg tacaacagga acctaagggg gnaaaggaaac ccttgagttt 300
atcggggggc accaggggaag gcttcacaga ggacatgatg tgagttgccca tttgaagaat 360
gagaaattgt tcttctgatg aactaaac                                     388

```

<210> 55
 <211> 360
 <212> DNA
 <213> Homo sapiens

<400> 55
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 acaaatcttc tttttcagaa tgatatgcat tatagtgaca ttaacaatca atcttagaca 120
 caagtgattg tttttataaa taggatctcc tcaatatagg tgatcctata ttaagaaaga 180
 tagtcatagt gaaccaatgg taacccaaaa gaatttgaaa agcaataatt tagtgggagc 240
 tcacttgcaa tataactcta tgcctcatatg tatttattta agtcatattc tatgaaatat 300
 cctatttgaa agcaaggaca ccctttgggt gcaaccccaa gtactctatg cagtattcgt 360

<210> 56
 <211> 1203
 <212> DNA
 <213> Homo sapiens

<400> 56
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 tctgatctca aactcctgat ctcaagtgat ctgcctgcct tggcctccca aagtgttggg 120
 attacaggcg ccacgccagc caacacctct tttttacgaa gtactgcatg agtaacttgg 180
 ggttgcaacc aaaggggtgtc cttgctttca aataggatat ttcatagaat atgacttaaa 240
 taaatacatg atgacataga gttatattcc aagtgagctc ccactaaatt attgcttttc 300
 aaattctttt tggttaccat tgggtcacat gtactatctt tcttaataata ggcactactaa 360
 tattgaggag atcctattta taaaaacaat cacttgtgtc taagattgat tgttaatggt 420
 aatataatgc atatcatctg taaaaaggaa atttgaaga aggaaatatt aaaaaatacc 480
 tgccagaaca acaggattct gaaagattct gtttgaaaa aacaaacaaa cgaacaaaaa 540
 aacgttttat ggggctaggt tttatacctc tttccaggtt attttctttt gctttcttca 600
 ccacgttgtg gcaggccagg tttcactaac tcaggcttcc ataacaacgg tttcagcact 660
 gaccgagtgg ttccatcaaa tattaacagc tgagagagtc agtgccttcc tgcaagggtc 720
 ggaatgtcac aaaagcccat caagagcttt gcctcggcct ttcctgggcc ttaaatcatg 780
 acaggataat gaaggaattc ttaacgggac ccgcttagga gtaataagt tttattgggg 840
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 ccaaacctcc atgatttagc aggagacaag acaaggttat tgacccagc acctggagcc 960
 atttaggta agtaaattta ctgaggttcc agaggaagag cttcagggtc cagatcttat 1020
 ttatagattt aaaaaagtga atcacttatg tcttttagat aatgtacact cacatgtaga 1080
 catatagctt ataattgtaa taagctctgg aaaactttgt agttttgagt tggctctggg 1140
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 taa 1203

<210> 57
 <211> 780
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (192).. (219)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (442)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (452)
 <223> a, c, g or t

<400> 57
 gctcgacaat tttatgacta tatttaatta atatgagcac attttagagt ggagaaaaca 60
 aagacttcat tcatccagca aatatattatt cagtaccgga agtgctagaa actatatgag 120
 ggtagtaaat aaaatagaat attcctgtcc tactatggag gggaatgga gagggagtgg 180
 aggaatagat gnnnnnnnnnn nnnnnnnnnng ttcattgtac ataaagaagt 240
 tatttttttc tgacagtaac taacaaagggt ctgggcaaga atcagaggggt gaccatttta 300
 agaggtggtg tttctgttga gactcaaatg ataagaagga tccagtgatg cagaaatcca 360
 gggcaaggaa taggatgttt gaagcctcca tagaagaaaa gcattttata gtagatcaga 420
 aagcaataac aaaaaagaaa anagaaaaaa anccatttgg caatgtctag gaacaaaaag 480
 gacattaacg tgggtagaat gctgtgagct aaaaagagag tagattgaaa tgaagttaaa 540
 gagaaatgga gagacagacc tcatagaatt ttgccctaaa tgaaatggga agccagggaa 600
 gtatgacaca gtcccataat aaacctgctt ctggtgcaga atggattgga attatcaagg 660
 cagttagtga ggaatccagt tagaagggtga atacagtgggt tcagtggtcc aggatggaaa 720
 tcacagtgc ctcaactaag aaggcagcag tagaggtaga gagaagttag tagatttgtc 780

<210> 58
 <211> 945
 <212> DNA
 <213> Homo sapiens

<400> 58
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 aagacttcat tcatccagca aatatattatt cagtaccgga agtgctagaa actatatgag 120
 ggtagtaaat aaaatagaat attcctgtcc tactatggag gggaatgga gagggagtgg 180
 aggaatagat gataaaca aaacaaaca agcaaaactag ttcattgtac ataaagaagt 240
 tatttttttc tgacagtaac taacaaagggt ctgggcaaga atcagaggggt gaccatttta 300
 agaggtggtg tttctgttga gactcaaatg ataagaagga tccagtgatg cagaaatcca 360
 gggcaaggaa taggatgttt gaagcctcca tagaagaaaa gcattttata gtagatcaga 420
 aagcaataac aaaaaagaaa aaagaaaaaa aaaacatttg gcaatgtcta ggaacaaaaa 480
 ggacattaac gtgggtagaa tgctgtgagc taaaaagaga gtgattgaa atgaagttaa 540
 agagaaatgg agagacagac tcatagaat ttgccctaa atgaaatggg aagccaggga 600
 agtatgacac agtcccataa taaacctgct tctggtgcag aatggattgg aattatcaag 660

gcagtttagtg aggaatccag ttagaagggtg aatacagtggtg ttcagtggtc caggatggaa 720
 atcacagtgga cctcaactaa gaaggcagca gtagaggtag agagaagttg atagatttgt 780
 cagtttaagtc ctgaatcacc ttgattgtta cctactctct ctctttggtt cttaattttg 840
 tcttctgttaa actggggtca attatattaa tgccaagaga tgttcagaac atgatttgag 900
 acaagacatg agtacctgac ataaggtagg atgcagtaat ctacg 945

<210> 59

<211> 444

<212> DNA

<213> Homo sapiens

<400> 59

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 catttgtagt gaccaaagga gacctggatt tcaatcttga ctttggacct cactagctct 180
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 cacagtggtg gcacatagat attcaaagtt attattccta caaaaatcag gactgtactc 360
 acccataaat tgcattttta aagaaagacc agttttgcaa ttttcacagga ttatctacat 420
 gatagctttt tacacaatca gtat 444

<210> 60

<211> 240

<212> DNA

<213> Homo sapiens

<400> 60

cagactgtac gtcacacact cacttttgggt ttattacagg acaagtttac ataggggttg 60
 aataccggga ggcagggtac attagggact atcttagagt ctatttatag taccctctaa 120
 gttgttaatta aatttttttt tgtgatgaga tgtacacaac aatttagtat tttagccgtt 180
 ttttaagtga cgattcaatg acatagtcac aatgttaggc aactatcacc attgttttca 240

<210> 61

<211> 598

<212> DNA

<213> Homo sapiens

<400> 61

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 tatacattat atcatggtgt tatcaataag ggcaattaaa aaaaaaatcc aggaacattt 120
 agcttgctgt tgccggtcag gagctcttgt aaggttgcac ttaggatgtt acccaggggt 180
 gaagtctgaa agctgcattg aactgaagga ttgtcctccg agctcactta catgggtgcc 240
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 gactgtacgt cacacactca cttttgtttt attacaggac aagtttatcat aggggttgaa 420

taccgggagg cagggatcat tagggactat cttagagtct atttatagta ccctctaagt 480
 tgaataaaaa tttttttttg tgatgagatg tacacaacaa tttagtattt tagccgtttt 540
 taagtgtacg attcaatgac atagtccaaa tgttaggcaa ctatcaccat tgttttca 598

<210> 62

<211> 1430

<212> DNA

<213> Homo sapiens

<400> 62

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 catgaaggag agggagagaa gggagaaaaca gaggagctgg acaagaggac aggtataggg 180
 aataagggag aagccagtaa ggcaggaaaag accctccgtg acaaaggggc agggaaacaga 240
 actcaaacat ttaattggcag gtaaccaggg ttagaatggt aaattgaaag gtgaatataa 300
 agggagaatg gtgaaatgaa ttttctgaaa ttaattgctg tgtttatagt ttttagccat 360
 gcatcggaat cacctcagga ctccactccc aatcaattat atatctgggg gaggaccaag 420
 gcgttggtat ttttcagaag ctccactggt gattctgaca gcacagctag gattaagaaa 480
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 gaacatggat gggggagtct ggagctgctg aattgtaagg ctcataaatg tttaaacttt 840
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 ccctggggat gattttattg gttagagtggg aatgtattaa aattctctac ttccctgtta 1380
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<210> 63

<211> 3120

<212> DNA

<213> Homo sapiens

<400> 63

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 catgaaggag agggagagaa gggagaaaaca gaggagctgg acaagaggac aggtataggg 180
 aataagggag aagccagtaa ggcaggaaaag accctccgtg acaaaggggc agggaaacaga 240
 actcaaacat ttaattggcag gtaaccaggg ttagaatggt aaattgaaag gtgaatataa 300

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gcgttcgat  ttttcagaag  ctccactggg  gattctgaca  gcacagctag  gattaaagaaa  480
ctgatacgtg  ggaacagcat  gcctgttgca  gaggagcttc  cctgggaaat  gtcacacaca  540
gaacatcaat  ctctctctcc  cactcctgag  atccctcatt  ctttggcacc  aggaacaggt  600
gcaattagta  aaccctgggt  ccctgctgtc  tcacaaatcg  caagagtcca  acgtgtggat  660
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acacactgca  cagtgaactg  agtttcatcc  aatgccacca  cccatgcagg  cataaataat  780
gaacatggat  gggggagctg  ggagctgctg  aattgttaagg  ctcataaagt  tttaaacttt  840
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gtgggtagag  aacaactaca  gaaaaaaaaa  aactgccaga  aactagaatg  tcatttttcc  1140
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catgattacc  tagccatctc  cagatcatct  tcatgatttt  cctggaaata  acggaagagg  1320
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<210> 64
 <211> 561
 <212> DNA
 <213> Homo sapiens

<400> 64
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 <211> 632
 <212> DNA
 <213> Homo sapiens

<400> 65
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 ggttcagcca tgctggtcat ctgctctata ta 632

<210> 66
 <211> 398
 <212> DNA
 <213> Homo sapiens

<400> 66
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 cttggggatc tgtgactttt ctctataaga tacctctgtg tctttattcc aatgataatt 180
 ttagaaatta gcataccact atttctgcat gatcttcata actatactgt aactttctat 240

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tagcataaaa tttcagtgcc acctttttag cagtttttac aacagccttg gtactgcata 300
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caattagcca ggtgtggtgt ctcacacttg tgatccca 398

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<210> 67

<211> 2487

<212> DNA

<213> Homo sapiens

<400> 67

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gatgatagga gttaagagag gactatagaa aactgggtct ctaagctgat gtgtcaagtc 60
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tttgtttttg gttttttatt ttctttaaat ttcaaggata ttcttctttt tgtaaatgtc 180
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caaccctcgc ctccaggttt caagcgattc tctccctcca gcctcccaag tagctgggat 300
tacaggcaca tgccatcatg cccggctaat tttgtattt ttggtagaga tgggggttca 360
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<210> 68

<211> 1184

<212> DNA

<213> Homo sapiens

<400> 68

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catttaaaga taggggtgga gattacgaga aaactaccat acagtttcatt aggggtgggg 180
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attatgttta aaaagaata actgttttat cagacctaaa gttt 1184

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<210> 69

<211> 543

<212> DNA

<213> Homo sapiens

<400> 69

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tactgttctg cctcctgtgag ccggtgtttg tctgccgggc ccgccttggt caccacagtga 180
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ggtcacacag tgaaggctca ttccgtgtgg tggcttgggt gcgctctgcac catttgaca 300
ccaagtctgt cttggtctca cagcgaaggc tcattccgtg tgggtggctg ggtgcgtctg 360
caccatttgg acatcaagtc tgtgttggtc tcacagagaa ggctcgttct gtgcagtggc 420

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ttgggtgggt ctgcacacgt ggaacacacc acgtgaccag aggggcctga gtcaggccta 480
cctggagtag ctccaggaag ctgtaaaggt gagaagcaaa ggcttctcca tgtgtttctg 540
gga

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<210> 70

<211> 560

<212> DNA

<213> Homo sapiens

<400> 70

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ctcattttcc tttcttcttt ccagagttgt tccttagtct ctccagctag tcatggctac 120
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ttgggtgggt ctgcacacgt ggaacacacc acgtgaccag aggggcctga gtcaggccta 480
cctggagtag ctccaggaag ctgtaaaggt gagaagcaaa ggcttctcca tgtgtttctg 540
ggacgcagaa gcgcctaat

```

<210> 71

<211> 546

<212> DNA

<213> Homo sapiens

<400> 71

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tccacctga tgaggaggc agatatcaga aggacactgc acatgataat gggggtgctg 60
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ctgtgatggt tcattataac aacagatcac cggaccatgg aaattacttc tccttctcta 420
ctcttttaggc taactcgttt ttatataaac aactcatccc caccagaca caccacaaag 480
gccctagagc agcagtttcc gaacagtgcc gtatcccccg gggatctcta aaaaatactg 540
acaccc

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<210> 72

<211> 676

<212> DNA

<213> Homo sapiens

<400> 72

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tccacctga tgaggaggc agatatcaga aggacactgc acatgataat gggggtgctg 60

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tgagggaata atgggggccc gggccttatg cagagggtgt gtcaggggaag gccttgccca 120
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acaccagac aatagggggg aatcctaaaa atacctgacc aagactattc aagattgtca 600
ggctcatgaa aaacaaagaa aagtcctgata ctacatcctg gatggaacat aacattaaaa 660
ctgagaaaat cggaaga 676

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<210> 73

<211> 451

<212> DNA

<213> Homo sapiens

<400> 73

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aaaaagaga aaagaaaacc caggaagttg cctgataatt ctttttcatg actactgaaa 60
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ctgtaccatc tctgaggatg actgatacag ttccagtatt caaagaagt ataccttttc 180
cagcaagaca gatcttttgt ttacatagaa aacattttgt tatttgggaa gtttgcttaa 240
ctatttgtaa gtggctcttt gcaattaatg gattaccttt ttttaatgga aagaaaataa 300
attcaaaatc cataagcaaa acttttagtaa tttctgactc taggatacta gcatcttcta 360
tttcttaatg gatttagact caacattttc cagtgaagta agtacttaca tcctctgggt 420
gtatagctct gcccatctgc ctgcgtaatac a 451

```

<210> 74

<211> 453

<212> DNA

<213> Homo sapiens

<400> 74

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catttgagta aacttccaaa acttgagcca ctaaaagatt ccattgctct gaccacctaa 180
cagttctccc aactgggtc agagagcaga acagttctct aagctggtag ggggagagaa 240
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aataggcaaa ccatatctct gaagtgtgat gagtataccg aggtttctag ctggaaaaat 360
gttcagggtg atgagataaa gaatatctca aagttttaat caataaatgc aaaccagcaa 420
aaatatcaat aaaaattttt taatgcctac aaa 453

```

<210> 75

<211> 481

<212> DNA

<213> Homo sapiens

<400> 75

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catttgagta aacttccaaa accttgagcca ctaaaagatt ccattgctct gaccacctaa 180
cagttctccc aacatggggtc agagagcaga acagttctct aagctggtag ggggagagaa 240
gctctatcat gttagagcag acatgaatgt gtaaggagaga ataagcagag gagtgtgtgc 300
aataggcaaaa ccatactctc gaagtgtgat gagtataccg aggtttctag ctggaaaaat 360
gttcagggtg atgagataaa gaatatctca aagttttaat caataaatgc aaaccagcaa 420
aaatatcaat aaaatatctt taatgcctac aaaaaaaaaa aaaaaaaaaa aattggcggc 480
c

```

481

<210> 76

<211> 492

<212> DNA

<213> Homo sapiens

<400> 76

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aattgaaata aatgggtctga tgctctctaa aatcttactg ttacatttcc ataaagttaa 60
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ttggtatgta ttctttatctt agcaaagtgt taatgcacag atttgacaaa tttaaagatt 180
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atacccaaaa tgtatcattt tttaatacct tcacttttat atgaaaattt accttaagta 300
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catttaataa ttaaacacag gaataccttt taaagtatta aaatttagta aaaatatctt 420
atctgcaaaa cagaatttgc atttaccaaa ctcaagcatt ataccttgca gtttgtaatt 480
gtttcaactgt tt

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492

<210> 77

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (266)

<223> a, c, g or t

<220>

<221> unsure

<222> (268)..(269)

<223> a, c, g or t

<220>

<221> unsure

<222> (273)..(275)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (286)..(287)
 <223> a, c, g or t

<400> 77
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 aataaatgtt tctaccatat gcagantnnt tnnnttttt tttgnnacg g 291

<210> 78
 <211> 870
 <212> DNA
 <213> Homo sapiens

<400> 78
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 cataacaatc taataaacct gacccaacc 870

<210> 79
 <211> 576
 <212> DNA
 <213> Homo sapiens

<400> 79
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 gttctcagca tgaaaggtag agagaagatt acttgatcat tatgtgctta tttgaaagtc 180

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actttctctc catgctctca catctcactt tttagaatgc aactgaatg cctggaatct 240
ctttgtttta gaaaagacaa agttgcattt ttaaaaaaat aatattctct gggaaaaaggc 300
tcagtgtctca acggttactc tataaagaga ttaaaaaaga aagtcaaggg aagataagga 360
aggtagcatg gctaacaacc tcgtgggttc tactagcatt atttcatgca aaatgtcatt 420
aacctttata taggagagaa taagtctggg aatcaactgg catctaaact ccatttcttg 480
tttgtcactc gcttccctgg ttgactatgg aaaagacatt tggctctttg aaaccttgcc 540
cccaacaact ataacatgac ttaaatcat ttagtc 576

```

<210> 80

<211> 905

<212> DNA

<213> Homo sapiens

<400> 80

```

ctgatctctca gttttctgtc aaagaacttc tgetcatatc caattcctat aaagtgggag 60
tactctaacc tgatatattac aacatttaggt tagattttat cctaatgtta ggtattagaa 120
tatactctaa cattactagt tcttcactct tactaaagtg catgttagat ttcttcaatg 180
atttttttaa attggcatgg ttgatacaaa gcctcctctc atccaaatac tgtgctcagt 240
cgctaaagtg atagttttaga accatactat ctctctgttg aaagaatgct ggggctcctg 300
gctacacact ttgagttagaa gggaaaatac cctctctgtg tttatgatgg tttttcttct 360
tacttgatta agaagaaagt acaaaaagggt gcttattgaa gcattgtcaa ttggggaaca 420
agattctcag gaatgaaata tttgtgactg ttctcagcat gaaaggtaga gagaagatta 480
cttgatcatt atgtgcttat ttgaaagtca ctttctctcc atgctcctac atctcacttt 540
ttagaatgca cactgaaatg ctggaatctc ttgtttttag aaaagacaaa gttgcattgt 600
taaaaaaata atattttctg ggaaaaaggct cagtgtctca cggttactct ataaagagat 660
ttaaaaagaa agtcaaggga agataaggaa ggtagcatgg ctaacaacct cgtgggttct 720
actagcatta ttctcatgcaa aatgtcatta acctttatat aggagagaa aagtctggga 780
atcaactggc atctaaactc catttcttgt ttgtgctg ctccctgggt gtagctatgga 840
aaagacattt ggtcttttga aaccttgccc ccaacaacta taacatgact taaattcatt 900
tatgc 905

```

<210> 81

<211> 622

<212> DNA

<213> Homo sapiens

<400> 81

```

tgagattctt ttatagtcct ctgtaggtaa gggttgattt tgaaattttg gctgctgtg 60
tttaagattt gattctcatt ctcaaacatt tacatgtata attttgagaa cacattttat 120
tataacaaat atagtaaaac gaatgaatca taactatgaa cgttttccag aagcatttct 180
tagataaatt atttttataa aagaaaaaca acacaacatc taagatttag agtggaaagaa 240
tatacttgta gtttaactcc ttgttgattt aaaaaatata ttggatttta ttttggcagg 300
gtgggggaat catctaataa aaaatttaaa gcaaaactca tttttcttaa ccagagttaa 360
gagacaggga gagaatcaaa tatgtgtgag ctccctctgt tgctctgtaa cagcatttta 420
ttcatgattt gtgagtgtat aaggaaattt ttgctaattg gtcaaaaaca attcaatttt 480
cctttaaggc aatttataac tttatttaaa tggaatataa aggaagaacc ccttatattg 540

```

aaaaattctga ctttcaaatt tatgttaata tttttaaaatt attaaaaacat taaaaaatgca 600
tctattttctc accactaaga gg 622

<210> 82

<211> 1079

<212> DNA

<213> Homo sapiens

<400> 82

gaaagatcta aatatccctg cacctcaagt agtacctatc atatgtagac accatataaa 60
tattttgtgtt gaattttaata aactcaggct gaacctactc tgcataatatt gtgatgacct 120
tcagattaac ctttagacac attcacaggg ttactctctt ggaagatctc tagggatcct 180
catttattttt ggtctttggg gttactgtat gttctgtctg ttggtgtttt tactctttga 240
gtattgtttt tcttccctta caaagatagt gtacatgttt attgttgggg gggagtcaaa 300
tcatatcaaa tgatagaaaa tgaaagccat ctccctagtt ctattcccca gaagagacca 360
ctgataagag tgtagtgtgt atcttttaag actattttca gcacatacat acatacgtat 420
tttgcacata tatggcataa ttaatatatt gttctaaaaa ttacattttc atctatctag 480
ctagctagct atatctcacg tatttccaag tgcagtattt tgggaagttt aaatagtcag 540
attagggccca tgtttgggtat tgtgactttg ttcctgacct gggtagagtg ctgtgcttag 600
ctgacatatt ttacaatcca gtgacactc ctgacattat ttgcagagtg ctcttaccag 660
cagaggagaa agagctactg tccccaaga ttggagcaaa tagccctgag ggaagtggaa 720
aatgtctttg gagtgttatt tcttttatct taaaatttag tgcagatctt gcattcaaa 780
acatcatggt atatctgtgt ttgtttcctt tgtttttaca aggagtttct cccaaaaaac 840
tgaacctgaa gtaatggta ctccaggaat ttatgtcttg tttatctctat ggcttcaagt 900
accttcagtg tattggcaag tactgtctat gtacactcca gctgagaagt acagtgttag 960
gtttccaaca aaagtaccta aggatttccc acagttcact taagaaggat gcaaaagatg 1020
ttactggaat aatcatagtc gcagttagct gtagaataaa ggacaggacc cggtagtgtt 1079

<210> 83

<211> 331

<212> DNA

<213> Homo sapiens

<400> 83

gtcgggtattc atctcccctg ttgggaaaagg tttaatctca tgggttattt cccaaaacct 60
gctttgttgc tctctcattt gttaaagcatg caatatcagc tggagagagg aaggcactgg 120
aaagaattgct ttggtcactt tacatcagtt ttaaagtagt ggcaaatagg agaatgccta 180
ttcagggccat ttattggcac ttccatgggg ggtaggtcct gaagtttccct gtggcagggt 240
agtgaaggc ctgggaagaa ggccaaggat gaaattgatg tggagaagag gatctggctg 300
acttttccctt gagaattcta agggatattt c 331

<210> 84

<211> 437

<212> DNA

<213> Homo sapiens

<220>
 <221> unsure
 <222> (362)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (399)
 <223> a, c, g or t

<400> 84
 gtattttcca gttatttcaact ttcactttat aaacatgaca cttttgttaa gattataaaa 60
 atgaattttg actgtgcac tgcattttta gacattttcg ttatgattgg taatagaaca 120
 ataaaaatgtc tagccttgta aagagttaag tttacttaca agacagacat catctaattt 180
 gcaacaagga ttaagcccc actctgaatt aaaattttctg ctggaaagat ttgaggcact 240
 ggcaaaactgt caaaggtagt attgtgctgag agtaaccagc ttttgcaaga cctgtgaaag 300
 taaaatctctt cgccagagt ttcttaggtg tgtgaactta tgatgacag gaatacattg 360
 gnggattccc actagagaaa cgcaccatta atagttaang ctttcacttt ctggtttcac 420
 ttgttgccct cataaat 437

<210> 85
 <211> 526
 <212> DNA
 <213> Homo sapiens

<400> 85
 gcagtatttc actgccacct gccaccaggg tttaaacagg ggagtagcag ggagctatta 60
 gggaggaggg gattgagggg tttttactaa ggcagaggca ggtgatagat ttgagatttg 120
 caaagtacaga acttgaggcc cagttgagga atagcattac aatgttagca gcgttgtagt 180
 gcgagcacaa gacttcacag gtgatgctag ttcacccaaa tgtgaaccca cattaactgg 240
 ttttctcttt gaatgtgatg gttccaagag gtttgcatc agtggagatg tgtgaaagg 300
 cttggagggtg gaaatctggg taagaatgcc aagggcattc ctggtagatg aaaatggtaa 360
 agcaagcaac agatctggaa aagaactagg agaaactggt agtatttct gggtgtcaac 420
 gtagggaag gcgttctaag cgttttctt ataaataatg aaaaaatggt aaaaagccaa 480
 aaaaaaagtg gggggagact gaaaattgag attatataga aaattg 526

<210> 86
 <211> 440
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (144)..(169)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (178)..(179)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (181)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (218)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (403)
 <223> a, c, g or t

<400> 86
 gctcgagtgt taaagtaata agtaacaaaa taattagaaa agttagaaaa ataatgacta 60
 tttggcaaaag atattttctca tacaatgaga aatatctttg tccaattagt ttaaaatctg 120
 atgtagagaa actgtatatc tatnnnnnnn nnnnnnnnnn nnnnnnnnnng atacttanna 180
 nactacttta gtttttagag tagttttagt ttccggcnaa aatgagcagg tacagagAAC 240
 atttttggtt acaatctaga caaatgtatc cattgtgtac aaattcattg aaaataatgt 300
 tatattatgt tatatgtgta ctcaaatact ctggggtgta attcagcaaa acactgggtt 360
 ttaacaagta gcttcactct catttttgtt attttcaata aanacaaatt ctgtgcatta 420
 tgcaacaagg ttataataaa 440

<210> 87
 <211> 95
 <212> DNA
 <213> Homo sapiens

<400> 87
 acaggcgtaga gtgccactgt gcctgtctca ttccctcttc attattagct ggaatacttc 60
 cagaaagaga catttccctt actgactgaa acaat 95

<210> 88
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 88

```

cgcttggtg gggcagggg tatatgggaa cccattaaa ttttactgtg aatccaaaac 60
tgctctaaga aagctctggct tttttttttt ttttctgaga cagagtttca ctctgtctca 120
ggctggagtg tgatggcacg atctaggctc actgcaccct ccacttcggg gtccaagcga 180
ctctcgtgcc tcagccctctc aaagtgtctag gattacaggc gtgagtgccca ctgtgctctg 240
ctcattccct ctctcattatt agctggaata ctccagaaa gagacatttc ctttactgac 300
tgaaacaatt ttttgaattt tatttattta tatatgagag ggagttttgc tctgttgct 360
taggctggag tgcaatggcg tgatctcggt gcactgaagt ctccgctcc tggatt 416

```

```

<210> 89
<211> 270
<212> DNA
<213> Homo sapiens

```

```

<400> 89
cttccagaca gctggccagt tatgttactg aaacagatat gtttctgaaa catacctatg 60
gctatattta tacctgggtt ttaaaacttt gagtcttatt ggcttcttct ggtacatttt 120
ttatttgtaa ttgtgcagaa ttccagatc tgagagtata cattctgaat ttatagttt 180
tagatcatgc aattacactt atttttctt gcttttgaaa aagtaaatgt gcttctctatt 240
ttcttaatga tcagttatct ttttttgttg
270

```

```

<210> 90
<211> 148
<212> DNA
<213> Homo sapiens

```

```

<400> 90
gatggatggt gttacttagc ttgaagaagt acattaaact gcactggtct ttggcaaacac 60
gtcccacgtg ccatgctagg catgcaatgg attctgatct tttattgtac aagtgggtga 120
aattctgatt catgacgata tggtgttg
148

```

```

<210> 91
<211> 853
<212> DNA
<213> Homo sapiens

```

```

<400> 91
acaaatgtca tcactgatag aaaggttcag taacttactc aagaccacaa aattaggtct 60
ttttgaaat taaaaaaaaa tcaaaaccag gatataaact cagggtttatt ttattcccaa 120
gcctattaat ttcaagttac agttattatc aaactgtatg tttcttaagg caggatctga 180
gtgtgtgaat catttatccc catagtagct tgcccttaag aggtacttag tacatatttt 240
ttgatgaatg atgtgtgaca aataatgggt tcctgtataa taggttatgg tttaaaaata 300
gaggaagtc atagactctc tagaaagtac ttcagatatc tgagaagact aagattgaga 360
actctctgga ggtctaattc taaattaaac ttccaagttg ggatgcaaaa ataaggagga 420
tgtttgaaa catcccatga tttatattta cataagcttc ataaggagaa tgaatcaga 480
ctgacctttg cttgagagcc atgtgatggc cagagaaaag ggcattgggt aacagccaaa 540

```



```

aggaaatcag cattatacta aagcagtgtt tctcaaagtg tgttcagggg aaggatatac 600
ccaagaatac atatccatca agagacttct ataaaaagag gagataatct aatacatata 660
gaagcatgac atagtctcac ggatccctga acaatacagg ggttgggggc attgaccctt 720
gtgcagacaa aaatctgcac gtaacttttt tttgagacag agtctctctc tgcactccag 780
cccgggcaca gagcaagacc ctgagacctt gtcagaaaga aataaagaga gaaagagaga 840
ggagagggag agg                                     853

```

```

<210> 92
<211> 801
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (553)..(676)
<223> a, c, g or t

```

```

<400> 92
cggagagaga ctctgtctca aaaataaagt aaatgaaata aatcttacgt ttaaaagccc 60
tttttcatgg attttctctca gagacttttg agaaaccaag gggtcagtta tttatcagtt 120
ggaacatttt ggacttttatg atcacaaatg ctttttaatc tgtgtaactt catctacaga 180
aaacctatgt ccattaagac tagagcgatc cctctatctc ttcattgccag gettctacca 240
gggagataac ctgtacacat tactcacgag catagtgcgt aatccacata gggtaatgtc 300
tgcagatttg agtatgtgtt cctaattctt ttatctagca tgtagagtat aaataacaca 360
atactggatg cttttatgga tgaacaagga ataataccta gcacctttct tctagaagtt 420
tatagtatga agagagaaga taagatgcat ctgagaaact agattaaact tgacattgtt 480
tgatcaagag ccacgtgagc aataccaaca tgggtggaga cagaggagaa atccatcgtg 540
gtgaatctag agnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnccac ctctgccccca ggtcacacag gtgggtataa ccaaaagtat 720
ctccaggtgt tgccaaatct gatctagagc aagaaaaaac atggaacatg aaaacagtgt 780
gtttaaaaata aagccagaga g                                     801

```

```

<210> 93
<211> 280
<212> DNA
<213> Homo sapiens

```

```

<400> 93
gagaacagga cccccatgct gcacagccct ggcttaacgc ggggggtggc ccagaagcgg 60
gtggggcagg ctgggcagca gggattggct gaaatcatat gcagagccca agaggcaggg 120
gaaaggcggc aatttcaggg tccctttgtt cgccaggtag ctggggccca gcccgggcgg 180
caggagggac tcagccctct ccccaggcag gaagggtccc aagcagaggc ccttccctca 240
ggcactcccc agccccacac tgcagcactg ggccaagact                                     280

```

<210> 94
 <211> 829
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (784)
 <223> a, c, g or t

<400> 94
 gaacaggacc cccatgtctc acagccctgg cttaacgcgg ggggtggccc agaagcgggt 60
 gggcgaggct gggcagcagg gattggctga aatcatatgc agagcccaag aggcaggggga 120
 aaggcgga tttcagggtc cctttgttcg ccaggtacct gggggccagc ccgggcggca 180
 ggagggactc agccccctcg ccaggcagga agggtcctca gcagaggccc ctccctcagg 240
 cactccccag cccacacctg cagcactggg accaagacta ataaaaacacc cgctccacgg 300
 aagacagctt tatcttggtg atcggaagtc tgccagccca atttatgatg gaacataaga 360
 tctctaaatc tgaatttaca ctctgtagcg taacgagagg tcaataagat taaacggggg 420
 ctcaaggagc gaccagcgctc agggctcact cgagggtgctg cacagaaaac ccacagccag 480
 agccccctggg cccagcccag gcaagaccag aaaaggaggg ggcaggtggg agaccagcct 540
 ggggctcccg ggaagcccac gggatggagg cgggagagcc agggggcctg gggcaacctt 600
 gggaacggtt ctggatcgag gagagcaggg ggggtgatgag gggtccctca gggctgggga 660
 gccttctcct ggtctcagac ccacccccct tcagctccca agccctgggt gccctggctg 720
 ctgaggacag tgggaatctt ccctgaggca ggttcaagga cagagctctg accctgtgct 780
 aggnctgctt tgggtgccta tgaactcggt tctggctcag agcagtcct 829

<210> 95
 <211> 170
 <212> DNA
 <213> Homo sapiens

<400> 95
 gataaccagt aggcagcagg ctactcctgg ttcgtaacat aactccacca gtgtattctg 60
 gcagccgggc ttacttaagg gagagcacag acattccctg ctcaaaaaca aaactgctaa 120
 acgtgactcc ggtagcctcc atgctctctg caagaataaa atccttgaag 170

<210> 96
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 96
 caaatttgaa atcttaaaat ttaagaaact agtggaggaa ttggatagta catgatttca 60
 aaaacatgaa aactgaggac attaaatgtg caagggttag aagtttgtcg catgcaaaagg 120
 ggaaagttaa gatagcattt ttccacatag ttccagaagt ccagttgctg aggttaatca 180
 atgaaagtgt tagcatcaaa ggtttaacat aaacaaactt cctaaaatca gccagggtgca 240

gaggctcagc cggtaatc

259

<210> 97

<211> 392

<212> DNA

<213> Homo sapiens

<400> 97

```

atggggtttg tcaattcaact ttaagtttat gagatataac catgttgaat tttgtagctg 60
tgggtttgatg atttttacat tatatagtat tacattccat ggatagttct cagtagataa 120
tcctccatt gttaacatt tgcgttgctt ctcattttga cctattttaa acaggcctct 180
ttaaataac acttctctgt agtgtatgct agaaatggag tggctggaat aaaagtggct 240
gaatcatctt caactctagt aagatgtcaa actgttttct aaaagtgttt tattttaact 300
attatagtgc aattttgaac agctctttca cttactagca atttattatc agcaacactt 360
gttattgtca gacttttaag ttttcattca ct 392

```

<210> 98

<211> 863

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (395)..(627)

<223> a, c, g or t

<400> 98

```

atggggtttg tcaattcaact ttaagtttat gagatataac catgttgaat tttgtagctg 60
tgggtttgatg atttttacat tatatagtat tacattccat ggatagttct cagtagataa 120
tcctccatt gttaacatt tgcgttgctt ctcattttga cctattttaa acaggcctct 180
ttaaataac acttctctgt agtgtatgct agaaatggag tggctggaat aaaagtggct 240
gaatcatctt caactctagt aagatgtcaa actgttttct aaaagtgttt tattttaact 300
attatagtgc aattttgaac agctctttca cttactagca atttattatc agcaacactt 360
gttattgtca gacttttaag ttttcattca ctggnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnngtg atcatattta tgttttgctc atttaaaaaa 660
acctggttaa atatttcaca aatcgacatt atgatataat atcttccaaa attttaataa 720
ttttgtcttt ttccacatt tagtcttttag ctcagctgga attcatttct gtgtgtgggt 780
tgagataagt ctttttcag tttttcccta tgaaataaat tatttccttc tgtattgcag 840
gtagctgaga ccaatgatag ctg 863

```

<210> 99

<211> 563

<212> DNA

<213> Homo sapiens

<400> 99

```

gggtacatcctt ggctgtggat ggaaatttga catacttttt attttcttta cctgttacat 60
atcaaactctt aggatgtatt acttccaagg cggttaaact tattcaagat tgactgagtc 120
tcctatttttc cttaaaattta ctagaagtga ggctccaaga actacagaaa atagaaggaa 180
agtcctccatt gagccatgaa ctgtgagcac ctggcattta agcatgaaga gtagggtctc 240
tatggtagggg actggagtag gcagcatcc aggaaaggat ctacagaggtc agaaaacata 300
gattatcagtt taaatacttc tggaccaaag aagaccttga aatcctggct cgggtgatgta 360
tacatatttta atacacaatg agaagctcct tgagggtgag tgagagtgat agggctgaag 420
aacaggagac agaagacaat tcaaatgtcc ttacacagaa gactgattat atagataatg 480
gtacattcat ataacatga tatatttact aattaaaaca taccaacaca cacaacacct 540
cgagccgcta gtctcgagtc tag                                     563

```

<210> 100

<211> 667

<212> DNA

<213> Homo sapiens

<400> 100

```

cggcaagctc taatgggaag gatacgccct gatcacacac tcctatttca aagggggtcca 60
gtaccagcac ctctccaccag tggctctacac tattatacaa ctttagaaga actctggaaa 120
agttttgatc tttgtgaaga ctattttaaa cctccatttg gaccatatcc tgaaaaagagt 180
gggaaggatt ccttggtttc catgaaatgt tcattgtttc ggttctgtcc gtggctcaaaa 240
gaattgcctt tccagcctcc ggaggggagc atttcttcac acctaggatc aggagccagt 300
gacagtgaga ccgaagagac ccggaagaca ctacctatac aatcattttc acatgaaaaa 360
gagctctacc aacacagaca acactcggtc ccagtcacac gtcccaggc ttccaacgtc 420
aaacccaccc tccctccaat ccctcagggc cgcaggtaga ctagcacttg atgtctgac 480
ctaacatgga aaacctgtct tgctgatgtc gaattccttg ccttacctgg ccatgggtcc 540
agctgtttct cactcaaccc attaccacag gaagaatgtg tttacctgcc ttaattctat 600
cagccagttt ctcttgtgat tctttggctg gtgtctttta gtttttaaat taaaaaattg 660
tttcttta                                     667

```

<210> 101

<211> 3734

<212> DNA

<213> Homo sapiens

<400> 101

```

gagtatacat ctttttcagc actgcacaac acctattcca aaattgacca catagtgtga 60
agtaaagctc tcctcagcaa atgtaaaaga acagaaatga taacaaactg tctctcagac 120
cacagtgcac tcaaaactaga actcaggatt aagaaaactca ctcaaaactg ctcaactaca 180
tggaactga acaacctgtc cctgaatgac tactgtgtac ataacaaaat gaaggcagaa 240
ataaagatgt tctttgaaac caacgagaac aaagacacaa cataccagaa tctctgggac 300
acattcaaaag cagtgtgtag agggaacttt atagcactaa atgtccacaa gagaaaagcag 360

```

```

gaaagatcca aaattgacac cctaatatct caattaaaaa aactagaaaa gcaagagcaa 420
acacattcaa aagctagcag aaggcaagaa ataacctaaa catcagagca gaagtgaagg 480
aaatagagac acaaaaaacc ttcaaaagaa ttaatgaatc caggaactgg tttttgaaa 540
ggatcagcaa aattgataga ccgctagcaa gactaataaa gaagaaacga gagaagaatc 600
aaatagacgc aataacacac atgataaagg ggatataccc acgatcccac agaaatacaa 660
actaccatca gagaatacta taaacacttc tatgcaataa aactagaaaa tctagaagaa 720
atggataaat tcttggacac atacaccctc ccaagactaa accaggaaga agctgaatcc 780
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cacacaagag cggc                                     3734

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<210> 102
<211> 353
<212> DNA
<213> Homo sapiens

```

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caaagcatag ctggtaacag aaaaaaagac tgaggaaatga taaacaatgg acgtaagaac 180
tccaaggcca gcaataggag gccatctaga ggaagcggcc agcacacctc gatagccata 240
gggcagcgct gtttgtgcca ggaggaaaat gatgtacaga tggtgacact aggacatgaa 300
gaaagggtta ggcgatgttg agaaacctca ttttaagaag acacacagtc gga 353

```

```

<210> 103
<211> 484
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (8)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (11)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (285)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (427)

```

<223> a, c, g or t

<400> 103

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cggctcgnag ntgttacagc tatggataat agtggttatct aagctgagtg tattgaatac 60
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ttaaaaaatca aattaaggca aacaatctct acacatttcc ccccttgtag ctatgccttt 180
acatttaggt tataaagtcg gccccctccc ccagtccccc ggattagcca actatcttcc 240
cgtttttgat tgtntggtag tgagtactgg agaataaatg ctgtntttaa tattatgtat 300
tttttccata actgaaattg gcggttagaag attggattaa aaaacatgag acctaacatt 360
ttagataaatt gtaaatatag tgtaagcagg aagatattta ctattttcaa taataaagac 420
ataaatnact tgttttctgt attttaagaa acttttgctg gtattttgata ttttaaaaaa 480
taag                                         484

```

<210> 104

<211> 119

<212> DNA

<213> Homo sapiens

<400> 104

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gagttttact cgcattccgag gagaaagggtg tgtgtacctg ctttcatgac gatagagagc 60
agacaacttc tttctggagt ttcagcttgc ttccaacagt gaaggaggaa ctgaaattt 119

```

<210> 105

<211> 290

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (19)

<223> a, c, g or t

<400> 105

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aatagaacag tgattgatgt catgaagaca attttatctc cttttgcctt ccataatttg 120
taccagtggt tgtcacgtgg ttgttgaata aatgaataaa gaatgagaaa accagaagct 180
ctgatacata atcataatga taattatttc aatgcacaac tacgggtggt gctgaactag 240
aatctatatt ttctgaaact ggctcctcta ggatctacta atgatttaaa 290

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<210> 106

<211> 1645

<212> DNA

<213> Homo sapiens

<220>

<221> unsure
 <222> (60)
 <223> a, c, g or t

<400> 106
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 aaccagaaac atggataaatt catttatttaa ttgatttttg taagccaaagt cctattttgga 180
 gaaaatttaatt agtttttcta aaaaagaatt ttctcaatat cactgggctt gataacattt 240
 ttctccttcg agttcctttt tctggagttt aacaaacttg ttctttacaa atagattata 300
 ttgactacca ctccactgat ttatgatatt agtttctatt gcttactttg tattttcta 360
 tttaggattc acaattttagc tggagaacta ttttttaacc tgttgacact aaacatgatt 420
 gagctagaag acagttttac catatgcatg cattttctct gagttatatt ttaaaactca 480
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 cctaaagccc atttctggcc tggagctact tggctttgtg acctatgggt aggcataagt 600
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 aagctgtgac ttcaattacc cttaactctg ctatgtcctc tgtagtacct tagattttca 840
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 cccaacactt gagctcactg caaca 1645

<210> 107
 <211> 2241
 <212> DNA
 <213> Homo sapiens

<400> 107
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 tgggtggagc gtggtagagt aggtcgcaaa tgattctcct atttctttcc ctgagttcag 180
 aacataggaa tttagattgat agacatcaac ataccgcctt tattgctgac tcatgacaac 240
 taatgggaag acatggctca gatgtgcagc cacagtgagc ttctgaacat ttcttctcag 300
 actaagctct tacacacagt tgcagttgaa agaaagaatt gcttgacatg gccacaggag 360
 caggcagctt cctgcagaca tgacagtcac gcgaaaactca tgtcactgtg ggcagacaca 420


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tgtttgcaaa gagactcaga gccaaacaag cacactcaat gtgctttgcc caaatattacc 480
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acacttgagc tcactgcaac a 2241

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<210> 108
<211> 437
<212> DNA
<213> Homo sapiens

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```

<400> 108
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gtcacctcaa aaaggcc 437

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<210> 109
 <211> 2587
 <212> DNA
 <213> Homo sapiens

<400> 109
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aaaaaaa 2587

<210> 110
<211> 448
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (409)
<223> a, c, g or t

<220>
<221> unsure
<222> (431)
<223> a, c, g or t

<400> 110
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tgaaaagttt acacaatcaa gacttgctat gttgatcctt tactgcggta ttgttttttg 180
ttttctgacc caaaagtgat gtgcattgct tacctatcat ggccttggtt aaggtgtcag 240
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ctgatttagt atcattagtt tgatgactag ttttattatg tgagtgtgat aaaagggtac 360
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acaacatagg ngttaacttt gtctggag 448

<210> 111
<211> 798
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (770)
<223> a, c, g or t

<220>
<221> unsure
<222> (773)
<223> a, c, g or t

<220>
<221> unsure

<222> (779)

<223> a, c, g or t

<400> 111

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gcttagtata caaagacctt ctataagtc tagttaataa aactaggggc atgtgttact 420
acaacatagg agttaacttt gtctggaggc tttttcaagc ccaagagggt gccatttctt 480
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acctcagcca agttgcttgg actgctttgc ttaataatgg gtttggcata tctactttaa 600
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aaggcaattc gtggtcgt 798

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<210> 112

<211> 683

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (676)

<223> a, c, g or t

<400> 112

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ggctgagcag actagccctg gggaaagtca ctgtgtccta aggcctggggg aaccaaggga 180
agaggttggt gttatctgga tttggaagct ggaagaaggg accctacagg gctgagactc 240
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aatacacagt tagcaggtca tcttagagag aaagactcaa aagatgtgtc gtgaataacc 420
taaatccaat ccagggtatac tggatgcaaa cactaggaga aaaaagaaag cttttatata 480
aggaattaaa ttgccctctg tctgaagaaa gaaacgatta ggaaagatgg aagtgtatctg 540
aataaaaatt acaaaaaggag aatcagacag accaacctgg gtgatgtgtt tcaagctctg 600
ccccaggagc ttgaatgtct gttccttctg gcaggagcat tcctagagac tgggtgcctca 660
ggttttatgt tggtgncctc ctg 683

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<210> 113

<211> 735

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (698)

<223> a, c, g or t

<220>

<221> unsure

<222> (700)

<223> a, c, g or t

<220>

<221> unsure

<222> (704)

<223> a, c, g or t

<220>

<221> unsure

<222> (709)

<223> a, c, g or t

<220>

<221> unsure

<222> (714)

<223> a, c, g or t

<220>

<221> unsure

<222> (730)

<223> a, c, g or t

<400> 113

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ggctgagcag actagccctg gggaaaggtca ctgtgtccta aggcctggggg aaccaaggga 180
agaggttgggt gttatctgga ttggaagct ggaagaaggg accctacagg gctgagactc 240
aggtcttga ggaaggggaa ctgcccagct aaaactgggt cctttgccag ggtacaatga 300
ggctaattct gggaacatag aaagaagctg acctggaacc agctacagcc accagtgtcc 360
aatacacagt tagcaggtca tcttagagag aaagactcaa aagattgtct gtgaataccc 420
taaatccaat ccagggtatac tggatgcaaa cactaggaga aaaaagaaag cttttatata 480
aggaattaaa ttgccctctg tctgaagaaa gaaacgatta ggaagatgg aagtgatctg 540
aataaaaattt acaaaaaggag aattcagaca gaccaacctg ggtgatgtgt ttcaagctct 600
gccccaggag cttgaatgtc tgttccttgt ggcaggagca ttctagaga ctgggtgcctc 660
aggttttatg ttgttgtctc tctgctccag ctcaccctn aaanctctnc cctnggatgt 720
tggaaactcan attct

```

735

<210> 114
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 114
 attttgagga atttacttgg atctttcaag atcctgctgt agctaagcaa gatcttcaag 60
 aaaacccttg tcttgccctc attgtgtaaa tgcaatttgc cttgtcaa at gactaggagg 120
 ccagtatagc aaggtcctct tgggaaactg gggtccggag ggtcagagct gcctctgctt 180
 caggctctct catgatctgg atcaagcttg ttgacttcc atctacagaa gtcaaccttg 240
 gcttctcaaa gagcaaaata gggctgagca gactagccct ggggaagggtc actgtgtcct 300
 aaggctgggg gaaccaaggg aagagggttg tggtatctgg atttggaggc tggagaagg 360
 gacctgcag gggtgagact caggcttctg agggaggggga actgccagc tagggctgat 420
 acctttgccg gggtgcaatg aggctaattc tgggaatata gaaggaagct gacctggaac 480
 cagctacagc caccagtgtc caatacacag ttagcagggtc atcttagaga gaaagactca 540
 aaagattgtc tgtgaatacc ctaaatccaa tccagggtata ctggatgcaa acactaggag 600
 t 601

<210> 115
 <211> 334
 <212> DNA
 <213> Homo sapiens

<400> 115
 gtttgaagg gctcaactca tgccaatata ccttgccct tgcagagtgg gacgcaagaa 60
 cctgatgtta gcaactctc cacactttaa tcaaccctg caaacacttt ccaagtgcct 120
 tctgtttgtc aggcaatatg ccagtcacta ggaatgaaga ggtagataag gatgggctt 180
 aaaatcaatc tagtgaggag ggacaacata aacaaatgaa caaacaatta tcagaaatat 240
 tttttatggg gtggcaaac agtgaaatat aggatcta at ttggtttgga aagaaagaga 300
 aaatttaaca gaaaagtaa tgtttgaagc cagt 334

<210> 116
 <211> 193
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (38)..(90)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (94)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (96)..(97)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (99)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (156)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (172)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (179)
 <223> a, c, g or t

<400> 116
 gaatgaaaca gtgggatgca gtgaggaaga ggaacacannn nnnnnnnnnn nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn tagngnncna atgtaggggg aaagttaata 120
 aaaattgtat tatattaggc gttttttgtt aaatangtag atcatagctg cncctgtcnc 180
 aaaaaggtaa cta 193

<210> 117
 <211> 152
 <212> DNA
 <213> Homo sapiens

<400> 117
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 gtaaaactgg taggctaaac attggggagt tattacattg acaacaacat gaaggggttt 120
 atgggacttc tggtaatggt ttgtttcctg at 152

<210> 118
 <211> 498
 <212> DNA
 <213> Homo sapiens

```

<400> 118
atatattttt gaatgaagtt caaggcatgt atttttatgt gttAACCAaa agatgcattc 60
aaggatgtta atctcagcag gatttgtaat acacCAaaat tggAAAAaa cctCAaaatg 120
tctatcaatg gtagaatgga attttatata gcaatggaaa tgcattgaact atgactatta 180
gcagcaacat gaatgatttt cataaaaaata gttttgagca aagaatccag atataaaaga 240
gggcattgcc tatgattcta cgtatattaa gtccaaacac aagcagtact atctatgata 300
gtaaaatggg agggctaaaca ttggggagtt attacattga caacaacatg aagggggtta 360
tgggatttctg gtaatgtttt gtttcctgat ctgggcactg ggtaccagga tgtattttact 420
ttgtgaacat ttaaccatct acgatttttg gattttttctg ggtatatgtt atactttcaa 480
taaaacattt tcatgaga                                     498

```

```

<210> 119
<211> 663
<212> DNA
<213> Homo sapiens

```

```

<400> 119
atgtatttga ctatatattt tagttctgaa aggaattttt taatacagtg aaacattagt 60
taaaaataaa tgttaactcc aaaaagaata ataaatcat tattttttta tcagaggctg 120
ccagtgtttt tctgcttaat ctatacagca tcttagctgt aaaaatgata gaattcatgt 180
tattttacta tgcattctca gtaacaataa atgtgttgct cacttctaca ttttagatag 240
ctgacataag gcctaacatg gaaagcaaaa agctatccag gaaatatttc cctgctcatg 300
catatttcct ttggcataca aatcatttga aatgatggtg agttaacttc aaacatttca 360
agctacacaa ctaatgtaat taaaccctaa gtccaattta ctattggccc ttggtacttc 420
tgcaggctga tgttaagtggt catttttcaa gtctttcatt gcctataaac aagatgggtg 480
caattttctt tattttctga acacttgcaa ttctctaaaa gtttcatact tcttcatacc 540
ttcaaatatg atttaggctt ttctagtacg taggcttccc ttttctgcct tgcttgcaga 600
ccctgttcat gcttggttaga catagcttca acgtgacatc tgggaagcct cccatgacat 660
gga

```

```

<210> 120
<211> 904
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (684)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (888)
<223> a, c, g or t

```

```

<220>

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<221> unsure
 <222> (893)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (896)
 <223> a, c, g or t

<400> 120
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 acccattttac cacctctact cctcacctca catctggcctt cctccagggg ccttgataca 120
 gtgggtgatg ggtcctaagg gggcctccag gaccaccagc ccctatgagg aaagagttct 180
 tcttgatctt accccttgac ttcccttttct ttctcctgca ggtctcagaa cgcccccgaa 240
 gcctcccccct gtccccgtgaa ttggagagct ctcccttgatg ccctctgtta gggccccccc 300
 caatccacag gcagaaggac atgagggagc aaagagcttg aggaatgcc aactccggct 360
 ggtccgggac atggaaattc ggactcaggg aggacccggg ctgggcaatg actggggagac 420
 ttgctggggt tccccaggact tgggggtcct gactcccagc cctcatcctg cagtcccctc 480
 tgttccacgc cccagccttt ctaagccatt gggaatagaa tggccccctt tgttctgggt 540
 tccaggggtg attgtgccaa agctcttatt tccagtgcc accccccaga ggcttgtaag 600
 agttgggatg agggatggag agggactggg tctctgggaa caggttggag gtcttatctg 660
 tggactgtct gactcccagc tgaagccaag atggggcatg tccccgtctc tgcttagcgt 720
 ctgggtgaga aaaacaggct gtgatccaga agaagggaa atagagaagg agggaaaagg 780
 tgtagggcaa ggaggtgaga gacaggatag gaggaaggaa gtggaggagg aggtggtagg 840
 aattggaatg aggtagaagc cgtgcagagg aagaggggag agggacgnag gangancgat 900
 gaag 904

<210> 121
 <211> 1309
 <212> DNA
 <213> Homo sapiens

<400> 121
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 acccattttac cacctctact cctcacctca catctggcctt cctccagggg ccttgataca 120
 gtgggtgatg ggtcctaagg gggcctccag gaccaccagc ccctatgagg aaagagttct 180
 tcttgatctt accccttgac ttcccttttct ttctcctgca ggtctcagaa cgcccccgaa 240
 gcctcccccct atccccgtgaa ttggagagct ctcccttgatg ccctctgtta gggccccccc 300
 caatccacag gcagaaggac atgagggagc aaagagcttg aggaatgcc aactccggct 360
 ggtccgggac atggaaattc ggactcaggg aggacccggg ctgggcaatg actggggagac 420
 ttgctggggt tccccaggact tgggggtcct gactcccagc cctcatcctg cagtcccctc 480
 tgttccacgc cccagccttt ctaagccatt gggaatagaa tggccccctt tgttctgggt 540
 tccaggggtg attgtgccaa agctcttatt tccagtgcc accccccaga ggcttgtaag 600
 agttgggatg agggatggag agggactggg tctctgggaa caggttggag gtcttatctg 660
 tggactgtct gactcccagc tgaagccaag atggggcatg tccccgtctc tgcttagcgt 720
 ctgggtgaga aaaacaggct gtgatccaga agaagggaa atagagaagg agggaaaagg 780
 tgtagggcaa ggaggtgaga gacaggatag gaggaaggaa gtggaggagg aggtggtagg 840

```

aattggaagg aggtagaagc cgtgcagagg aagaggggag agggacgaag gaggagcgat 900
gaagaagagg agggagacaa aaagagggat ggaggagaga gggagtctgg agaacaaagg 960
gtcctttctc tggggagggg tgcatgggc ggggctgaca ctgtcagcca atcctcccat 1020
cggggaagag aatcctggac agggacagga tggggagggt atttataacg ggccttttgg 1080
tgggagatgg gtacccagtg ggggccactg gagggtctcc gggcacactc tggcccttcc 1140
cagaaagggg gtccgtcttc tcgaatcctt ccacagttgt gtattgcaaa ctacggcgca 1200
ttttactatt gatcacagct cattatcttg tcattacata ctatttctat tcaacctccc 1260
ccaactgaag tgtggccgcg acaatcacca ccaaccccca cacaccaa 1309

```

```

<210> 122
<211> 295
<212> DNA
<213> Homo sapiens

```

```

<400> 122
gcagtttggg aattagaaaa aaacccaaag tatgcatgca gttctgtaag ataaagtgtc 60
tgtccaggca tgcatacaac ccagcaattg catgcctggg cgcttacctt acagaaatga 120
acatttataa ttacattata atatgtacac caaattcatc acagctttat taatagaagc 180
caaaactctc gtggggttct cacagtgtag ccattgccag agtaaaactgc agccttgaac 240
cattgtctcag cctccttacc catgagctat gaacactgaa gcaggttgca cagtg 295

```

```

<210> 123
<211> 714
<212> DNA
<213> Homo sapiens

```

```

<400> 123
caaaagaccc tgtcaacagg attaaatata cagccaccga ctcgagaaaa atattttgca 60
aaacagcgta tccggcaaaag aattaatatc agaatacata atgaattctc gaaaactcga 120
agtataacaa atatcgtaca ctggaaagtg ggcaaaacca ttaataaaca ttccaccaca 180
taggatatat agatggccaa agaagcatat gaaaaagatg cgcaacatca tttagctatta 240
gggaaatgca aattaaaaacc accattagga tattagtaca gaattggttaa acatcaaaaa 300
taatagtgat aacaccaaag gccaaataagg aagtggagga gaaataggat cattgatata 360
ttgtttttgg gaaggtaaaa tggtagagcc ctctagaaag cagtttggtg attagaaaaa 420
aaccctaaag atgcatgcag ttctgtaaga taaagtgtct gtccaggcat gcatacaacc 480
cagcaattgc atgcctgggc gcttacctta cagaaatgaa catttataat tacattataa 540
tatgtacaca aaattcatca cagctttatt aatagaagcc aaactctctg tgggcttctc 600
acagtgtagc cattgccaga gtaaaactgca gccttgaacc attgctcagc ctccctacc 660
atgagctatg aacactgaag caggttgcac agtgaaaaaa aaaaaaagtc gacc 714

```

```

<210> 124
<211> 924
<212> DNA
<213> Homo sapiens

```

<400> 124

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agagtggcct aggcacagctc ctctcctgcc agagctaggc aggcgccgaa gtaccgcat 60
ggccccgtca gaagacccca gggactggag agccaacctc aaaggcacca tccgtgagac 120
aggcctggag accagctccg gtgggaagct ggctggccat cagaagaccg tccccacggc 180
tcacctgact ttgtttattg actgcaccca cgggaagcag ctctccctgg cagcaaccgc 240
atcaccaccc caagcccccga gtcccaatcg agggcttgtc accccaccaa tgaagacctc 300
catcgtgttc tgtggggaaa actggcccca tctgactcgg gtgaccccca tgggtggggg 360
atgccttgcc caggccaggg ccacctgcc gctctgcaga gggctctgtg cctcagcttc 420
cttcccagtc agcccgctct gccccaggga ggttcccag gctaaggggga aaccctgtaa 480
ggctgcgcct gtgaggtctt caacttgggg aacagtcagg gactcactga aagccctctc 540
ctcttgtgtc tgtgggcagg ccgattagct ggaaggaccg ggctctgatg cccagaggct 600
gcaattccca gggcctggcc ctgcttcccc agctaagcag gagtcttttg tcttgagcc 660
aaggaacatc cattagatcc gctaaggggc atctgaacaa tccgtcagat gccagaggca 720
ggataagtca cctgcacatc aagagactca ttcattcata cagcaaatat tactggatca 780
tcttccacat gccaggccct gcaaaagtgt ggggagatac catgggtttac atggagctgg 840
tatttttggg gtggagggaa cccaccctga ataaataaag taaccaata aataaagaag 900
atgattttga acagcgaaaa aaaa                                     924

```

<210> 125

<211> 939

<212> DNA

<213> Homo sapiens

<400> 125

```

agagtggcct aggcacagctc ctctcctgcc agagctaggc aggcgccgaa gtaccgcat 60
ggccccgtca gaagacccca gggactggag agccaacctc aaaggcacca tccgtgagac 120
aggcctggag accagctccg gtgggaagct ggctggccat cagaagaccg tccccacggc 180
tcacctgact ttgtttattg actgcaccca cgggaagcag ctctccctgg cagcaaccgc 240
atcaccaccc caagcccccga gtcccaatcg agggcttgtc accccaccaa tgaagacctc 300
catcgtgttc tgtggggaaa actggcccca tctgactcgg gtgaccccca tgggtggggg 360
atgccttgcc caggccaggg ccacctgcc gctctgcaga gggctctgtg cctcagcttc 420
cttcccagtc agcccgctct gccccaggga ggttcccag gctaaggggga aaccctgtaa 480
ggctgcgcct gtgaggtctt caacttgggg aacagtcagg gactcactga aagccctctc 540
ctcttgtgtc tgtgggcagg ccgattagct ggaaggcccg ggctctgatg cccagaggct 600
gcaattccca gggcctggcc ctgcttcccc agctaagcag gagtcttttg tcttgagcc 660
aaggaacatc cattagatcc gctaaggggc atctgaacaa tccgtcagat gccagaggca 720
ggataagtca cctgcacatc aagagactca ttcattcata cagcaaatat tactggatca 780
tcttccacat gccaggccct gcaaaagtgt ggggagatac catgggtttc ctggagctgg 840
tatttttggg gtggagggaa cccaccctga ataaataaag taaccaata aataaagaag 900
atgattttga acagcgaaaa aaaaattcga gctcgttg 939

```

<210> 126

<211> 317

<212> DNA

<213> Homo sapiens

<400> 126
 aaaaagggtt gaattattaa aatcagttcc atgttagtca aagagttaca attatagttc 60
 aactaaacct gcagtcaatg taagtattca taccctaaga aaaagcacca caaaatgatg 120
 tctgtgattg ttaacgggtg attggtttcc tgtgtccata gtggacaata ttatgaagca 180
 tagacagaaa aacatgttta ctaagaagct tttttttcct tccaggaaat tctgtagggtg 240
 aaacatgttg aacattgtca gttgacacat attctgggtga agtctaacat taaacattaa 300
 actaaaaagc aagtgac 317

<210> 127
 <211> 144
 <212> DNA
 <213> Homo sapiens

<400> 127
 gaaaccaaatt attttcctaa tgcaaaagtt gaaaccttat ctgaatggaa gttcgtagtg 60
 taattcccca agttttaaat gcctgggctt cgttaatgag tttttaccaa ttgtctgcta 120
 catgtgtaaa atttcacctc agca 144

<210> 128
 <211> 161
 <212> DNA
 <213> Homo sapiens

<400> 128
 aaccaaatat tttcctaattg caaaagttga aaccttatct gaatggaagt tcgtagtgtg 60
 attccccaag ttttaaatgc ctgggcttcg ttaatgagtt tttaaccaatt gtctgtctaca 120
 tgtgtaaaaa ttcacctcag cattttgtgg tttttgtttt t 161

<210> 129
 <211> 728
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (239)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (255)
 <223> a, c, g or t

<400> 129
 gcagagttag agccaatttc atttgtcctg cactgagaat gtgcattccc agcagatcat 60

```

ggttgagctc agcacacctg caactcagcc agcctctttg aagggtgcac agttactaac 120
tgtcagcggt gcacagccac ctttagcagg tatgttcaga acttacattc ccaccctttc 180
taaaacagct cacagtaaca agagaacggg atttaacttt tgacatgcac actcatgana 240
accaatgatt tttgnaagcc aaattgttga gaagataaagg tggggattct gactactagt 300
atttttacaa atctgattgt cgttcgagggt tttgttttat tttgtttgtg taatgctgag 360
agtggagaat agattggaat atttgcctct tgtgtttctt tttgctttgt aacattgcaa 420
gtggtccaca ttttctttaa tttaaaattt aaagtgtgtg cctgggggtt ctggtgttaa 480
atagaagtga tactctcgca taaagtatta tggagatgct ctgttccatc cagggagggtg 540
caggtgaaaa gagggcagtt catcctcctc acacttaggg caggggagcag catgcagggg 600
cagatcagca gctttgcatg ttgacaaatc cactctctgc tgcagatgcc taggggaagt 660
tgcagactta aattttcttt tgtaaaaatg gggaacacaa acagatctta tgtcactgggt 720
tactccag 728

```

```

<210> 130
<211> 680
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (375)..(563)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (615)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (649)
<223> a, c, g or t

```

```

<400> 130
ttccgacctt cattataaga ctgctgtaat gatctaaaac tttagctgtt ttaatatagt 60
tttaaaaacta atgatatctt tctctgtcag taaaatacaa actttttctt aataaaaatg 120
taatggaaaa ctgtctctca tagatttttg tcactttaca aagtgacaaa atcattttgt 180
tagtttatgg aaaataagct tgtaaaactt tttacctaaa agataggact gaaatttcag 240
cttttttaat ttgatgatga gtttttaatt tcttttgaaa aagaatgtat gcttctaata 300
atttatcaag aggaagaata ccaaagaaa atatctgctc ttctttcttt ttacttagat 360
ttttttgcat tttttttttt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnactgttt ttctctgctc ctcatacaac aatcaacaca 600
gaagcctctc gtggncctca atgtggggga attttttcca cgccaagcna gcagtcaggg 660
ctgcagtgct tccaacttag 680

```

<210> 131
 <211> 858
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (375)..(563)
 <223> a, c, g or t

<400> 131
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 ttttaaaacta atgatatactt tctctgtcag taaaatacaa actttttctt aataaaaatg 120
 taatggaaaa ctgttctcca tagatttttg tcactttaca aagtgacaaa atcattttgt 180
 tagtttatgg aaaataagct tgtaaaactt tttacctaaa agataggact gaaatttcag 240
 cttttttaat ttgatgatga gtttttaatt tcttttgaaa aagaatgtat gcttctaata 300
 attttatcaag aggaagaata ccaaaagaaa atatctgctc ttctttcttt ttacttagat 360
 ttttttgcatt ttttntnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
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 <211> 862
 <212> DNA
 <213> Homo sapiens

<400> 135
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<210> 137
 <211> 611
 <212> DNA
 <213> Homo sapiens

<400> 137
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 gaattaaaaa gtcaaaataa ttcttgacat ctacagattg aacaaagaac ttagaagaaa 300
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 tttctcttta t 611

<210> 138
 <211> 787
 <212> DNA
 <213> Homo sapiens

<400> 138
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<210> 139
 <211> 927

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (568) .. (738)

<223> a, c, g or t

<400> 139

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<210> 140

<211> 4651

<212> DNA

<213> Homo sapiens

<400> 140

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<210> 141

<211> 147

<212> DNA

<213> Homo sapiens

<400> 141

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tgcgtgTTtg gcaataaaa agatggg 147

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<210> 142

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (4)

<223> a, c, g or t

<220>

<221> unsure

<222> (56)

<223> a, c, g or t

<400> 142

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acacatatta catatgacta atttatatgt agcaacaggg attaagaag acctctTTta 180
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aagtgattat ttttaccctg acttttataa gtcaactggt tcagaagtca agttgat 417

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<210> 143

<211> 834

<212> DNA

<213> Homo sapiens

<400> 143

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<210> 144

<211> 982

<212> DNA

<213> Homo sapiens

<400> 144

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<210> 145

<211> 601

<212> DNA

<213> Homo sapiens

<400> 145

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a 601

<210> 146

<211> 247

<212> DNA

<213> Homo sapiens

<400> 146

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gacctcagtc ctaggttctc tctgccccga ccttctggca agggggaata gagtagctc 180
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tattaaa 247

<210> 147

<211> 424

<212> DNA

<213> Homo sapiens

<400> 147

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<211> 574

<212> DNA

<213> Homo sapiens

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<211> 248

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<211> 944

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 542

<212> DNA

<213> Homo sapiens

<400> 153

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<212> DNA

<213> Homo sapiens

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<211> 1373

<212> DNA

<213> Homo sapiens

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taaagaagaa gataagaag agcgtcaaaa gcagtacctg agacatagac gacttttcat 180

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<211> 338

<212> DNA

<213> Homo sapiens

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<211> 56

<212> DNA

<213> Homo sapiens

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<210> 160

<211> 15

<212> PRT

<213> Homo sapiens

<400> 160

Met Asn Asn Ser Gly Ala Asp Leu His Leu Ser Thr Gly Thr Ile

1

5

10

15

<210> 161

<211> 37

<212> PRT

<213> Homo sapiens

<400> 161

Met Asn Tyr Lys Leu Ser Glu Ile Ile Leu Ser Ser Lys Leu Ile Thr

1

5

10

15

Asp Val Ser Glu Ile Thr Gln Ile Met Phe Pro Phe Gln Phe Lys Ser

20

25

30

Arg Pro Phe Pro Leu

35

<210> 162

<211> 94

<212> PRT

<213> Homo sapiens

<400> 162

Met Gly Gln Glu Ala Gly Val Trp Gln Val Ser Phe Cys Phe Lys Lys

1

5

10

15

Gly Lys Gln Lys Glu Cys Gln Lys Phe Asp Phe Asn Phe Leu Ala Glu

20

25

30

Ala Phe Leu Pro Phe Ser Cys Pro Phe Phe Phe Pro Leu Pro Ser Phe

35

40

45

Pro Pro Ser Val Leu Ser Ser Phe Leu Phe Pro Leu Leu Ile Pro Phe

50

55

60

His Arg Thr Phe Cys Ala Gln Lys Met Thr Ala Ser Cys His Ala Pro

65

70

75

80

Leu Cys Glu Ser Ser Cys Ser Leu His Cys Gln Leu His Phe

85

90

<210> 163

<211> 53

<212> PRT

<213> Homo sapiens

<400> 163

Met Thr Leu Asn Glu His Ala Ala Phe Lys His Leu Phe Asn Glu Ala

1

5

10

15

His Leu Ala Pro Pro Leu Ile His Leu Thr Leu Ser Gly His Ser Thr
 20 25 30

Cys Phe Arg Glu His Arg Val Gly Gly Thr Val Pro Asp Thr Gly Asp
 35 40 45

Asn Lys Glu Lys Gln
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<210> 164

<211> 31

<212> PRT

<213> Homo sapiens

<400> 164

Met Leu Ile Cys Phe Tyr Pro Asp Thr Tyr Asn Gln Val Glu Leu Gly
 1 5 10 15

Ile Leu Phe Ser Leu Arg Val Gly Glu His Arg Ile Thr Leu Tyr
 20 25 30

<210> 165

<211> 36

<212> PRT

<213> Homo sapiens

<400> 165

Met Ile Thr Lys Ile Ile Asn Tyr Leu Gln Ile Ile Phe Thr Gly Ile
 1 5 10 15

Val Arg Pro Ile Arg Lys Asn Tyr Lys Thr Leu Trp Asp Gly Tyr Lys
 20 25 30

Arg Arg Phe Glu
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<210> 166

<211> 19

<212> PRT

<213> Homo sapiens

<400> 166

Met Phe Leu Asn Cys Thr Met Asn Tyr Lys Asn Leu Leu Ala Arg Ser
 1 5 10 15

Val Leu Phe

<210> 167

<211> 22

<212> PRT

<213> Homo sapiens

<400> 167

Met Lys Cys Phe Ser Phe Cys Leu Asn Thr Thr Ser Phe Thr Val Val
1 5 10 15

Lys Val Asn Tyr Phe Pro
20

<210> 168

<211> 68

<212> PRT

<213> Homo sapiens

<400> 168

Met Arg Leu Phe Ala Ile Val Gly Cys Trp Lys Phe Gly Tyr Ser Lys
1 5 10 15

Trp Tyr Ile Arg Leu Leu Phe Ala Cys Ala Pro Glu Val Phe Val Pro
20 25 30

Ala Ser Arg Ser Ala Val Ser Thr Pro Leu Ser Gln Pro Val Gly Ser
35 40 45

Thr Cys Glu Lys Leu Ser Ile Pro Gly Leu Ser Gly Arg Phe Leu Thr
50 55 60

Ser Leu Met Phe
65

<210> 169

<211> 105

<212> PRT

<213> Homo sapiens

<400> 169

Phe Leu Leu Arg Gln Asp Leu Thr Leu Ser Pro Lys Leu Glu Cys Ser
1 5 10 15

Gly Ala Ile Met Ala His Cys Ser Leu Gly Leu Pro Gly Ser Ser Asn
 20 25 30
 Pro Ser Thr Ser Ala Ser Arg Leu Ala Gly Thr Thr Gly Ala Tyr His
 35 40 45
 Gln Ala Trp Leu Ile Phe Leu Ile Lys Thr Gly Val Tyr Tyr Val Ala
 50 55 60
 Gln Ala Gly Leu Glu Leu Leu Asp Ser Ser Asn Ser Pro Thr Leu Ala
 65 70 75 80
 Ser Gln Ser Asp Arg Ile Thr Gly Met Ser His His Ala Gln Pro Gly
 85 90 95
 Ser Pro Leu Leu Thr Ile Thr Ile Pro
 100 105

<210> 170

<211> 35

<212> PRT

<213> Homo sapiens

<400> 170

Met Leu Thr Ile Ser Glu Lys Ile Ile Ser Tyr Ile Tyr Ile Leu Val
 1 5 10 15

Ser Lys Asp Ala Leu Lys Ala Leu Ser Ser Ile Val His Asn Ile Pro
 20 25 30

Gly Leu Phe
 35

<210> 171

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (74)

<400> 171

Met Ala Leu Gly His Ile Ser Gln Trp Ser Asp Pro Gly Ser Gln Gln
 1 5 10 15

Ser Leu Leu Ser Ile Arg Asp Arg Thr Met Ala Gly Thr Leu Ser Lys
 20 25 30

Val Pro His Asp Pro Glu Asp Met Cys Glu Phe Cys Ile Ile Phe Pro
 35 40 45

Ser Ile Ile Leu Arg Thr Val Arg Ala Lys Val Arg Thr Leu Thr His
 50 55 60

Arg Phe Val Thr Arg Arg Asn Ser Leu Xaa Thr Glu Ser Phe
 65 70 75

<210> 172

<211> 32

<212> PRT

<213> Homo sapiens

<400> 172

Met Arg Pro Gly Trp Pro Leu His Phe Leu Arg Asp Val Met Asn Ser
 1 5 10 15

Arg Val Thr Lys Met Gln Thr Ala Ser Ser Arg His Arg Gly Met Val
 20 25 30

<210> 173

<211> 46

<212> PRT

<213> Homo sapiens

<400> 173

Met Glu Lys Asp Leu Arg Val Gln Ser Ser Gly Pro Ile Leu Pro Arg
 1 5 10 15

Arg Leu Gly Lys Phe Met Arg Val Ser Gly Arg Gly His Gly Val Leu
 20 25 30

Ile Asp Leu Phe Ser Gln Leu Lys Ser Ser Phe Arg Leu Ser
 35 40 45

<210> 174

<211> 39

<212> PRT

<213> Homo sapiens

<400> 174

Met Val Cys Arg Cys Ser Arg Lys Leu Cys Arg Trp Tyr Val Gly Asn
 1 5 10 15

Trp Ile Trp Gly Asn Ala Ala Ala Cys His Ala Leu Ser Ile Gly Arg
 20 25 30

Phe Ser Pro Leu Phe Pro Pro
 35

<210> 175

<211> 38

<212> PRT

<213> Homo sapiens

<400> 175

Met Asn Thr Thr Leu Leu Cys Leu Cys Arg Ile Leu Pro Glu His Gly
 1 5 10 15

Gly Lys Ser Thr Gly Ile Val Val Arg Lys Leu Gly Phe Trp Pro Glu
 20 25 30

Phe Ala Pro Asp Tyr Gln
 35

<210> 176

<211> 36

<212> PRT

<213> Homo sapiens

<400> 176

Met Leu Ala Lys Ile Ser Lys Thr Ile Lys Pro Gly Ser Ile Glu Leu
 1 5 10 15

Pro Ser Ser Tyr His Lys Val Phe Pro His Phe Leu Leu Ile Val Asn
 20 25 30

Phe Leu Lys Lys
 35

<210> 177

<211> 51

<212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (26)..(32)

<400> 177
 Met Phe Ser Ser Pro Ser Asp Cys Leu Leu Ile Pro His Leu Phe Phe
 1 5 10 15
 Arg Ser Leu Phe Phe Ile His Trp Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30
 Ala Phe Lys Phe Leu Leu Phe Met Arg Gln Met Tyr Leu Arg Ser Ile
 35 40 45
 Asp Val Ser
 50

<210> 178
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 178
 Met Leu Ala Asn Thr Ile Val Ser Val Arg Lys Cys Arg Val Trp
 1 5 10 15

<210> 179
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 179
 Met Ser Ser Leu Leu Lys Ala Leu Thr Phe Trp Pro Gln Arg Met Ala
 1 5 10 15
 Leu Phe Val Pro Ile Arg Thr Arg Ile Leu Ile Phe Leu Leu Leu Gly
 20 25 30
 Pro Gly Asn Gln Arg Thr Thr Asn Thr Phe Ala Arg His Leu Gln Pro
 35 40 45
 Ser Arg Ser Gly Arg Pro Ser Leu Ser
 50 55

<210> 180

<211> 46

<212> PRT

<213> Homo sapiens

<400> 180

Met Arg Asn Ile Asn Ile Val Asp Tyr Ile Lys Ile Gly Ser Phe Cys

1

5

10

15

Ser Ser Thr Met Ser Glu Gly Glu Lys Ala Ser His Ile His His Pro

20

25

30

Tyr Ala Pro Lys Thr Gly Met Pro Arg Ala Glu Phe Arg Ala

35

40

45

<210> 181

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (26)..(47)

<400> 181

Met Leu Asn Met Pro Leu Thr Ile Gln Ile Met Tyr Tyr Leu Met Leu

1

5

10

15

Leu Ile Ile Val Leu Phe Asn Leu Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20

25

30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

35

40

45

<210> 182

<211> 45

<212> PRT

<213> Homo sapiens

<400> 182

Met Ser Thr Ile Arg Glu His Ile Ser Leu Tyr Ile Ile Val Thr Asn

1

5

10

15

Ile Leu Asn Tyr Lys Glu Lys Lys Lys Lys Asp Ala Lys Val Gln Arg

20 25 30

Leu Asn Ser Gln His Pro Thr Asp Arg Glu Tyr Leu Gly
 35 40 45

<210> 183
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 183
 Met Phe Cys Val Tyr Val Lys Pro Ser Pro Pro Val Leu Phe Ile Gly
 1 5 10 15

Gly Gly Leu Ile Ala Val Met Ala Ser Ile Asn Gly Phe Leu Val Pro
 20 25 30

Arg Pro Ser Val Val Leu Ser His Ser Asp Ser Arg Leu Asn Asn Met
 35 40 45

Ala Lys Glu Glu Ser Arg Lys Leu Glu
 50 55

<210> 184
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 184
 Met Leu Ile Phe Leu Phe Tyr Ser Ile Pro Ile Ser Arg Ala Gln Leu
 1 5 10 15

Ile Gly Gln Pro Thr Thr Gly Ser Pro Cys Trp Val
 20 25

<210> 185
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 185
 Met Pro Thr Arg Val Phe Ile Thr His Tyr Tyr Ser Ile Phe Gly Val
 1 5 10 15

Pro Val Pro Cys Ser Leu Asn Asn Pro Gln Leu

20

25

<210> 186

<211> 25

<212> PRT

<213> Homo sapiens

<400> 186

Met	Gln	Arg	Gly	Lys	Glu	Leu	Ile	Val	Ala	Leu	Phe	Glu	Asn	Tyr	Leu
1				5					10					15	

Arg	Pro	Ser	Leu	Gly	His	Phe	Asn	Ser
			20					25

<210> 187

<211> 49

<212> PRT

<213> Homo sapiens

<400> 187

Met	Leu	Ser	Gln	Phe	Leu	Lys	Met	Glu	Trp	Glu	Val	Glu	Ile	Ser	Gln
1				5					10					15	

Val	Val	Ala	Gly	Leu	Gln	His	Phe	His	Ile	Leu	Gly	Tyr	Ile	Ile	Thr
			20					25						30	

Arg	Cys	Cys	Leu	Pro	Ala	Gly	Ala	Ile	Thr	Ala	Ser	Lys	Ala	Thr	Cys
			35					40						45	

Phe

<210> 188

<211> 113

<212> PRT

<213> Homo sapiens

<400> 188

Met	Ala	Thr	Lys	Gln	Ser	Pro	Leu	Phe	Tyr	Leu	Thr	Gly	Ser	Ala	Gly
1				5						10				15	

Gly	Ser	Leu	Val	Leu	Lys	Pro	Pro	Pro	Asn	His	Pro	Tyr	Arg	Val	Ser
			20						25					30	

Leu	Arg	Ala	Lys	Met	Met	Pro	Gln	His	Pro	Arg	Arg	Pro	Leu	Leu	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35 40 45
 His Gln Leu Gly Thr Lys Tyr Ser Leu Lys Cys Phe Ala Cys Gln Thr
 50 55 60
 Thr Arg Lys Gly Asn Ala Val Ser Thr Ser Ser Ile Cys Leu Cys Leu
 65 70 75 80
 Val Arg Arg Ala Leu Glu Glu Phe Arg Met Gln Val Lys Ser Met Glu
 85 90 95
 Gly Gly Ile Ser Phe Leu Ile Cys Lys Met Ser Leu Ile Lys Leu Ile
 100 105 110

Thr

<210> 189

<211> 31

<212> PRT

<213> Homo sapiens

<400> 189

Met Pro Gln Thr Cys Thr Tyr Ser Lys Ser Asn Ile Leu Lys Ile Tyr
 1 5 10 15
 Gly Ile Asp Arg Asn Thr Phe Lys Ala Thr Ile His Thr Ala Arg
 20 25 30

<210> 190

<211> 38

<212> PRT

<213> Homo sapiens

<400> 190

Met Gln Phe Gln Ala Leu Gly Arg Arg Val Pro Asp Cys Phe Leu Tyr
 1 5 10 15
 Thr Ala Ile Ile Pro Tyr Thr Ala Gly Ser Ser Phe Phe Asp Ile Leu
 20 25 30
 Cys Asn Cys Arg Gly Leu
 35

<210> 191

<211> 78
 <212> PRT
 <213> Homo sapiens

<400> 191
 Met Lys Ile Pro Ala Leu Ser Trp Val Trp Pro Ser Arg Asn Leu Leu
 1 5 10 15
 Ser Tyr Ile His Gly Val Leu Pro Phe Tyr Lys Leu Met Phe Cys Asn
 20 25 30
 His Pro Gly Tyr Phe Pro Arg Arg Lys Lys Lys Leu Val Glu Gln Gly
 35 40 45
 Glu Gly Cys Leu Lys Phe Gly Asn His Pro Trp Tyr Leu Asn Gln Gly
 50 55 60
 Lys Ala Leu Arg Ser Leu Val Leu Gly Asn Ile Leu Leu Tyr
 65 70 75

<210> 192
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 192
 Met Leu His Val Cys Ser Val Leu Ser Arg Gln Arg Leu Ala Pro Met
 1 5 10 15
 Lys Glu Ala Ser Glu Pro Ser Arg Arg Glu Val Phe Ser Leu Ser Asn
 20 25 30
 Ser Gln

<210> 193
 <211> 325
 <212> PRT
 <213> Homo sapiens

<400> 193
 Lys Val Ser Ile Leu Ser Thr Phe Leu Ala Pro Phe Lys His Leu Ser
 1 5 10 15
 Pro Gly Ile Thr Asn Thr Glu Asp Asp Asp Thr Leu Ser Thr Ser Ser
 20 25 30

Ala Glu Val Lys Glu Asn Arg Asn Val Gly Asn Leu Ala Ala Arg Pro
 35 40 45
 Pro Pro Ser Gly Asp Arg Ala Arg Gly Gly Ala Pro Gly Ala Lys Arg
 50 55 60
 Lys Arg Pro Leu Glu Glu Gly Asn Gly Gly His Leu Cys Lys Leu Gln
 65 70 75 80
 Leu Val Trp Lys Lys Leu Ser Trp Ser Val Ala Pro Lys Asn Ala Leu
 85 90 95
 Val Gln Leu His Glu Leu Arg Pro Gly Leu Gln Tyr Arg Thr Val Ser
 100 105 110
 Gln Thr Gly Pro Val His Ala Pro Val Phe Ala Val Ala Val Glu Val
 115 120 125
 Asn Gly Leu Thr Phe Glu Gly Thr Gly Pro Thr Lys Lys Lys Ala Lys
 130 135 140
 Met Arg Ala Ala Glu Leu Ala Leu Arg Ser Phe Val Gln Phe Pro Asn
 145 150 155 160
 Ala Cys Gln Ala His Leu Ala Met Gly Gly Gly Pro Gly Pro Gly Thr
 165 170 175
 Asp Phe Thr Ser Asp Gln Ala Asp Phe Pro Asp Thr Leu Phe Gln Glu
 180 185 190
 Phe Glu Pro Pro Ala Pro Arg Pro Gly Leu Ala Gly Gly Arg Pro Gly
 195 200 205
 Asp Ala Ala Leu Leu Ser Ala Ala Tyr Gly Arg Arg Arg Leu Leu Cys
 210 215 220
 Arg Ala Leu Asp Leu Val Gly Pro Thr Pro Ala Thr Pro Ala Ala Pro
 225 230 235 240
 Gly Glu Arg Asn Pro Val Val Leu Leu Asn Arg Leu Arg Ala Gly Leu
 245 250 255
 Arg Tyr Val Cys Leu Ala Glu Pro Ala Glu Arg Arg Ala Arg Ser Phe
 260 265 270
 Val Met Ala Val Ser Val Asp Gly Arg Thr Phe Glu Gly Ser Gly Arg
 275 280 285

Ser Lys Lys Leu Ala Arg Gly Gln Ala Ala Gln Ala Ala Leu Gln Glu
 290 295 300

Leu Phe Asp Ile Gln Met Pro Gly His Ala Pro Gly Arg Ala Arg Arg
 305 310 315 320

Thr Pro Met Pro Gln
 325

<210> 194

<211> 33

<212> PRT

<213> Homo sapiens

<400> 194

Met Ala Ser Phe Leu Leu Ser Thr Pro Ala Lys Arg Lys Pro His Pro
 1 5 10 15

Leu Pro Pro Ala His Pro Arg Ile His Thr Phe Arg Gln Pro Ser Gly
 20 25 30

Asn

<210> 195

<211> 74

<212> PRT

<213> Homo sapiens

<400> 195

Met Ile Pro Thr Phe Val Leu Asp Ala Lys Tyr Ala Ala Leu Met Gly
 1 5 10 15

Gln Pro Trp Gly Leu Cys Ala Ile Cys Val His Ile Cys Leu Leu Leu
 20 25 30

Asp Ser Val Ser Leu Arg Ser Phe Ser Thr Ala Gln His Leu Glu Arg
 35 40 45

Ala Ser Lys Ser Thr Ser Ser Leu His His Leu Ile Leu Ile Asn Pro
 50 55 60

Ala Arg Glu Gly Cys Thr Gly Arg Thr Ala
 65 70

<210> 196
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 196
 Met Ala Asn Phe Cys Val Phe Ile Glu Thr Glu Gly Asn Ala Val Thr
 1 5 10 15
 Arg Arg Ala Leu Arg Lys Gln Ala Thr Ala Gly His Cys Ser Gly Lys
 20 25 30
 Pro Ala Phe Gln Pro Ala Pro Pro Gln Tyr Pro Arg Val His Ser Glu
 35 40 45
 Asp Arg Arg Leu Gln Gln Pro Gln Ala Ala Gly Arg Trp Gly Ala Pro
 50 55 60
 Asp Trp Ile Pro Pro Leu Gln Asp Thr Arg Lys Pro Ser Val Ser Ser
 65 70 75 80
 Arg Asp Ser Arg Ile His Glu Lys Glu Val Ile Leu Asp Ser Leu Cys
 85 90 95

Ile

<210> 197
 <211> 645
 <212> PRT
 <213> Homo sapiens

<400> 197
 Ala Leu Arg Pro Pro Ser Gly Phe His Ile Arg Cys Leu Gly Asp Val
 1 5 10 15
 Ser Pro Ile Ser Met Ser Pro Ile Ser Gln Ser Gln Phe Ile Pro Leu
 20 25 30
 Gly Glu Ile Leu Cys Leu Ala Ile Ser Ala Met Asn Ser Ala Arg Lys
 35 40 45
 Pro Val Thr Gln Glu Ala Leu Met Glu His Leu Thr Thr Cys Phe Pro
 50 55 60
 Gly Val Pro Thr Pro Ser Gln Glu Ile Leu Arg His Thr Leu Asn Thr

65	70	75	80
Leu Val Arg Glu Arg Lys Ile Tyr Pro Thr Pro Asp Gly Tyr Phe Ile	85	90	95
Val Thr Pro Gln Thr Tyr Phe Ile Thr Pro Ser Leu Ile Arg Thr Asn	100	105	110
Ser Lys Trp Tyr His Leu Asp Glu Arg Ile Pro Asp Arg Ser Gln Cys	115	120	125
Thr Ser Pro Gln Pro Gly Thr Ile Thr Pro Ser Ala Ser Gly Cys Val	130	135	140
Arg Glu Arg Thr Leu Pro Arg Asn His Cys Asp Ser Cys His Cys Cys	145	150	155
Arg Glu Asp Val His Ser Thr His Ala Pro Thr Leu Gln Arg Lys Ser	165	170	175
Ala Lys Asp Cys Lys Asp Pro Tyr Cys Pro Pro Ser Leu Cys Gln Val	180	185	190
Pro Pro Thr Glu Lys Ser Lys Ser Thr Val Asn Phe Ser Tyr Lys Thr	195	200	205
Glu Thr Leu Ser Lys Pro Lys Asp Ser Glu Lys Gln Ser Lys Lys Phe	210	215	220
Gly Leu Lys Leu Phe Arg Leu Ser Phe Lys Lys Asp Lys Thr Lys Gln	225	230	235
Leu Ala Asn Phe Ser Ala Gln Phe Pro Pro Glu Glu Trp Pro Leu Arg	245	250	255
Asp Glu Asp Thr Pro Ala Thr Ile Pro Arg Glu Val Glu Met Glu Ile	260	265	270
Ile Arg Arg Ile Asn Pro Asp Leu Thr Val Glu Asn Val Met Arg His	275	280	285
Thr Ala Leu Met Lys Lys Leu Glu Glu Glu Lys Ala Gln Arg Ser Lys	290	295	300
Ala Gly Ser Ser Ala His His Ser Gly Arg Ser Lys Lys Ser Arg Thr	305	310	315
His Arg Lys Ser His Gly Lys Ser Arg Ser His Ser Lys Thr Arg Val			

580

585

590

Lys Asn Leu Thr Leu Leu Ala Pro Lys Glu Thr Asp Ser Ser Ser Asn
 595 600 605

Gln Arg Ala Thr His Ser Ala Arg Leu Asp Ser Met Asp Ser Ser Ser
 610 615 620

Ile Thr Val Asp Ser Gly Phe Asn Ser Pro Arg Cys Pro Ala Ala Leu
 625 630 635 640

Lys Ala Glu Ala Ser
 645

<210> 198

<211> 29

<212> PRT

<213> Homo sapiens

<400> 198

Met Leu Leu Tyr Ser Thr Arg Gly Lys Lys His Gly Leu Tyr Pro Gln
 1 5 10 15

Gln Ser Leu Gly Asn Arg Gly Ile Tyr Leu Gln Asn Gly
 20 25

<210> 199

<211> 32

<212> PRT

<213> Homo sapiens

<400> 199

Met Val Thr Lys Lys Asn Leu Lys Ser Asn Asn Leu Val Gly Ala His
 1 5 10 15

Leu Glu Tyr Asn Ser Met Ser Ser Cys Ile Tyr Leu Ser His Ile Leu
 20 25 30

<210> 200

<211> 38

<212> PRT

<213> Homo sapiens

<400> 200

Leu Ala Asn Phe Arg Ile Phe Ser Arg Asp Arg Val Ser Pro Cys Trp
 1 5 10 15

Pro Val Ala Ser Gln Thr Pro Asp Leu Lys Ala Ser Ala Cys Leu Gly
 20 25 30

Leu Pro Lys Cys Trp Asp
 35

<210> 201

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (12)

<220>

<221> UNSURE

<222> (15)

<400> 201

Met Ser Phe Leu Phe Leu Asp Ile Ala Lys Trp Xaa Phe Phe Xaa Phe
 1 5 10 15

Leu Phe Cys Tyr Cys Phe Leu Ile Tyr Tyr Lys Met Leu Phe Phe Tyr
 20 25 30

Gly Gly Phe Lys His Pro Ile Pro Cys Pro Gly Phe Leu His His Trp
 35 40 45

Ile Leu Leu Ile Ile
 50

<210> 202

<211> 59

<212> PRT

<213> Homo sapiens

<400> 202

Met Gln Leu Trp Gly Glu Tyr Ser Pro Tyr Phe Cys Arg Asn Asn Asn
 1 5 10 15

100	105	110
Arg Val Asp Ile Asn Phe Cys Ser Trp Glu Asp Leu Ser Pro Ser Gly		
115	120	125
Lys Ala Thr Gly Lys Ser Arg Thr His Cys Thr Val Thr Ala Val Ser		
130	135	140
Ser Asn Ala Thr Thr His Ala Gly Ile Asn Asn Glu His Gly Trp Gly		
145	150	155
Ser Leu Glu Leu Leu Asn Cys Lys Ala His Lys Cys Leu Asn Phe Phe		
165	170	175
His		

<210> 205
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 205
Met Thr Ser Met Ala Glu Pro Gly Leu Ala Leu Tyr Leu Cys Gly His
1 5 10 15
Thr Val Val Trp Ser Ser Ser Ser Leu Met Val Thr Phe Val Arg Ile
20 25 30
Leu Ile Ser Val Phe Phe Leu Pro Gln Phe Ser Ser Ser Arg Leu Pro
35 40 45
His Pro Cys Ser Leu Phe Met Pro Ala Trp Val Val Ala Leu Asp Glu
50 55 60
Thr Ala Val Thr Val Gln Cys Val Leu Leu Phe Pro Val Ala Phe Pro
65 70 75 80
Leu Gly Glu Arg Ser Ser His Glu Gln Lys Phe Ile Ser Thr Arg Trp
85 90 95
Thr Leu Ala Ile Cys Glu Thr Ala Gly Asn Gln Gly Leu Leu Ile Ala
100 105 110
Thr Val Pro Gly Ala Lys Glu
115

<210> 206
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 206
 Met Leu Ile Ser Lys Ile Ile Ile Gly Ile Lys Thr Gln Arg Tyr Leu
 1 5 10 15

Ile Glu Lys Ser His Arg Ser Pro Arg Ile Tyr Ile Tyr Leu Gly Leu
 20 25 30

Ala

<210> 207
 <211> 126
 <212> PRT
 <213> Homo sapiens

<400> 207
 Leu Pro Cys Ser Asn Phe Phe Phe Phe Ser Phe Ser Leu Phe Leu Val
 1 5 10 15

Phe Ile Phe Ser Ala Ile Ser Arg Ile Phe Leu Leu Leu Ala Met Ser
 20 25 30

Gln Ser Ile Met Ala Leu Ser Pro Arg Leu Glu Cys Asn Gly Ala Val
 35 40 45

Ser Gly His Cys Asn Pro Cys Leu Pro Gly Ser Ser Asp Ser Pro Pro
 50 55 60

Ser Ala Ser Gln Val Ala Gly Ile Thr Gly Thr Cys His His Ala Arg
 65 70 75 80

Leu Ile Phe Val Phe Leu Val Glu Met Gly Phe His His Val Gly Gln
 85 90 95

Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Leu Pro Thr Ser Ala Ser
 100 105 110

Gln Ser Ala Gly Ile Thr Gly Val Ser His Arg Ala Arg Pro
 115 120 125

<210> 208

<211> 88

<212> PRT

<213> Homo sapiens

<400> 208

Met Val Tyr Lys Leu Glu Trp His Ile Ala Phe Leu Arg Ile Leu Arg
 1 5 10 15

Gln Arg Pro Gly Phe Gly Ala Lys Ile Lys Gly Trp Met Ser His Leu
 20 25 30

Pro Trp Tyr Gly Asn Ala Ser Val Leu Thr Ser Ala Gln Ser Asn Leu
 35 40 45

Lys Leu Ile Ser Pro Ser Arg Phe Phe Leu Leu Phe Leu Ala Arg Glu
 50 55 60

Lys Ile Thr Ser Ala Phe Phe Phe Arg Arg Val Lys Lys Lys Glu His
 65 70 75 80

His Ser Ile Ser Gln Asn Cys Ile
 85

<210> 209

<211> 52

<212> PRT

<213> Homo sapiens

<400> 209

Met Ser Leu His Cys Val Thr Asn Thr Asp Leu Val Ser Lys Trp Cys
 1 5 10 15

Arg Arg Thr Gln Ala Thr Thr Arg Asn Glu Pro Ser Leu Cys Asp Gln
 20 25 30

Gly Gly Pro Gly Arg Gln Thr Pro Ala His Glu Gly Arg Thr Val Val
 35 40 45

Ala Met Thr Ser
 50

<210> 210

<211> 63

<212> PRT

<213> Homo sapiens

<400> 210

Met Arg Leu Pro Asp Asp Ser Cys Pro Ser Cys Ser Gly Leu Pro Ala
 1 5 10 15

Glu Lys Ser Cys Thr His Arg Ala Leu Leu Gly Phe Leu Thr Cys Gly
 20 25 30

Ile His Asp Pro Val Thr Pro Leu Ser Ser Val Met Val His Tyr Asn
 35 40 45

Asn Arg Ser Pro Asp His Gly Asn Tyr Phe Ser Ser Ser Thr Leu
 50 55 60

<210> 211

<211> 104

<212> PRT

<213> Homo sapiens

<400> 211

Met Asp Phe Glu Phe Ile Phe Phe Pro Leu Lys Lys Gly Asn Pro Leu
 1 5 10 15

Ile Ala Lys Ser His Leu Gln Ile Val Lys Gln Thr Ser Gln Ile Thr
 20 25 30

Lys Cys Phe Leu Cys Lys Gln Lys Ile Cys Phe Ala Gly Lys Gly Ile
 35 40 45

Leu Leu Leu Asn Thr Gly Thr Val Ser Val Ile Leu Arg Met Gly Thr
 50 55 60

Val Pro Tyr Asn Leu Phe Leu Lys Tyr Leu Leu Leu Gly Leu Ser
 65 70 75 80

Gln Ala Pro Ile Phe Ser Val Val Met Lys Lys Asn Tyr Gln Ala Thr
 85 90 95

Ser Trp Val Phe Phe Ser Leu Phe
 100

<210> 212

<211> 57

<212> PRT

<213> Homo sapiens

<400> 212

Met Ile Glu Leu Leu Ser Pro Tyr Gln Leu Arg Glu Leu Phe Cys Ser
 1 5 10 15

Leu Thr His Val Gly Arg Thr Val Arg Trp Ser Glu Gln Trp Asn Leu
 20 25 30

Leu Val Ala Gln Val Leu Glu Val Tyr Ser Asn Gly Gly Arg Thr Gln
 35 40 45

Leu Gly Ile Trp Phe Leu Leu Ser Lys
 50 55

<210> 213

<211> 31

<212> PRT

<213> Homo sapiens

<400> 213

Met Leu Glu Phe Gly Lys Cys Lys Phe Cys Phe Ala Asp Glu Ile Phe
 1 5 10 15

Leu Leu Asn Phe Asn Thr Leu Lys Gly Ile Pro Val Phe Asn Tyr
 20 25 30

<210> 214

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (29)..(32)

<220>

<221> UNSURE

<222> (36)

<400> 214

Met Leu Ile Glu Val Phe Lys Gly Ile Tyr Lys Leu Asn Thr Leu His
 1 5 10 15

Asn Tyr Gln Leu Asn Lys Cys Phe Tyr His Met Gln Xaa Xaa Xaa Xaa
 20 25 30

Phe Phe Leu Xaa Arg

Leu Leu Ala Met Leu Pro Ser Leu Ser Ser Leu Asp Phe Leu Phe Lys
 35 40 45

Ser Leu Tyr Arg Val Thr Val Glu His
 50 55

<210> 217

<211> 67

<212> PRT

<213> Homo sapiens

<400> 217

Met Cys Glu Leu Pro Leu Leu Leu Cys Asn Ser Ile Leu Phe Met Ile
 1 5 10 15

Cys Asp Val Ile Arg Lys Phe Leu Leu Met Cys Gln Asn Lys Phe Asn
 20 25 30

Phe Pro Leu Arg Gln Phe Ile Thr Leu Phe Lys Trp Asn Ile Lys Glu
 35 40 45

Glu Pro Pro Ile Cys Lys Ile Leu Thr Phe Lys Phe Met Leu Ile Phe
 50 55 60

Leu Asn Tyr
 65

<210> 218

<211> 69

<212> PRT

<213> Homo sapiens

<400> 218

Met Ser Cys Leu Ser Tyr Gly Phe Lys Tyr Leu Gln Cys Ile Ala Lys
 1 5 10 15

Tyr Cys Ser Cys Thr Leu Gln Leu Arg Asn Thr Val Leu Gly Phe Gln
 20 25 30

Gln Lys Tyr Leu Arg Ile Ser His Ser Ser Leu Lys Lys Asp Ala Lys
 35 40 45

Asp Val Thr Gly Ile Ile Ile Val Ala Val Ser Cys Arg Ile Lys Asp
 50 55 60

Arg Thr Arg Tyr Gly
65

<210> 219

<211> 29

<212> PRT

<213> Homo sapiens

<400> 219

Met Leu Trp Ser Leu Tyr Ile Ser Phe Lys Val Val Ala Asn Lys Arg
1 5 10 15

Met Pro Ile Gln Gly Ile Tyr Trp His Phe His Gly Gly
20 25

<210> 220

<211> 26

<212> PRT

<213> Homo sapiens

<400> 220

Met Asn Phe Asp Cys Ala Ser Ala Ile Leu Asp Ile Phe Val Met Ile
1 5 10 15

Gly Asn Arg Thr Ile Lys Cys Leu Ala Leu
20 25

<210> 221

<211> 41

<212> PRT

<213> Homo sapiens

<400> 221

Met Leu Phe Leu Asn Trp Ala Pro Ser Ser Asp Phe Ala Asn Leu Lys
1 5 10 15

Ser Ile Thr Cys Leu Cys Leu Ser Lys Asn Pro Ser Ile Pro Ser Ser
20 25 30

Leu Ile Ala Pro Cys Tyr Ser Pro Val
35 40

<210> 222

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (31)..(39)

<220>

<221> UNSURE

<222> (42)..(43)

<400> 222

Met Thr Ile Trp Gln Arg Tyr Phe Ser Tyr Asn Glu Lys Tyr Leu Cys
 1 5 10 15

Pro Ile Ser Leu Lys Ser Asp Val Glu Lys Leu Tyr Ile Tyr Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ile Leu Xaa Xaa Leu Leu
 35 40 45

<210> 223

<211> 31

<212> PRT

<213> Homo sapiens

<400> 223

Met Phe Gln Ser Val Arg Glu Met Ser Leu Ser Gly Ser Ile Pro Ala
 1 5 10 15

Asn Asn Glu Glu Gly Met Arg Gln Ala Gln Trp His Ser Arg Leu
 20 25 30

<210> 224

<211> 48

<212> PRT

<213> Homo sapiens

<400> 224

Phe Phe Phe Phe Phe Leu Arg Gln Ser Phe Thr Leu Ser Gln Ala Gly
 1 5 10 15

Val Ala Trp His Asp Leu Gly Ser Leu His Pro Pro Leu Pro Gly Ser
 20 25 30

Ser Asp Ser Arg Ala Ser Ala Ser Gln Ser Ala Arg Ile Thr Gly Val

35

40

45

<210> 225

<211> 30

<212> PRT

<213> Homo sapiens

<400> 225

Met Tyr Gln Lys Lys Pro Ile Arg Leu Lys Val Leu Lys Thr Arg Tyr
 1 5 10 15

Lys Tyr Ser His Arg Tyr Val Ser Glu Thr Tyr Leu Phe Gln
 20 25 30

<210> 226

<211> 44

<212> PRT

<213> Homo sapiens

<400> 226

Met Asn Gln Asn Leu His His Leu Tyr Asn Lys Arg Ser Glu Ser Ile
 1 5 10 15

Ala Cys Leu Ala Trp His Val Gly Arg Val Ala Lys Asp Gln Cys Ser
 20 25 30

Leu Met Tyr Phe Phe Lys Leu Ser Asn Asn Ile His
 35 40

<210> 227

<211> 57

<212> PRT

<213> Homo sapiens

<400> 227

Met Leu Ile Ser Phe Trp Leu Leu Thr His Ala Ala Phe Ser Gly His
 1 5 10 15

His Met Ala Leu Lys Gln Arg Ser Val Cys Ile His Ser Pro Tyr Glu
 20 25 30

Ala Tyr Val Asn Ile Asn His Gly Met Phe Pro Asn Ile Leu Leu Ile

35

40

45

Phe Ala Ser Gln Leu Gly Ser Leu Ile
 50 55

<210> 228
 <211> 101
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (32)..(73)

<400> 228
 Met Phe His Val Phe Ser Cys Ser Arg Ser Asp Leu Ala Thr Pro Gly
 1 5 10 15

Asp Thr Phe Gly Tyr Thr Asn Arg Val Tyr Leu Gly Gln Arg Trp Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Asp Ser Pro Arg Trp Ile
 65 70 75 80

Ser Pro Leu Ser Pro Thr Met Leu Val Leu Leu Thr Trp Leu Leu Ile
 85 90 95

Lys Gln Cys Gln Val
 100

<210> 229
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 229
 Met Leu His Ser Pro Gly Leu Thr Arg Gly Trp Pro Gln Lys Arg Val
 1 5 10 15

Gly Glu Ala Gly Gln Gln Gly Leu Ala Glu Ile Ile Cys Arg Ala Gln

[illegible]

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<210> 230
<211> 23
<212> PRT
<213> Homo sapiens
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<400> 230
Met Glu Ala Thr Gly Val Thr Phe Ser Ser Phe Val Phe Glu Gln Gly
  1             5             10             15
Met Ser Val Leu Ser Leu Lys
      20

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<210> 231
<211> 48
<212> PRT
<213> Homo sapiens
```

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<400> 231
Met Lys Thr Glu Asp Ile Lys Cys Ala Arg Val Arg Ser Leu Ser His
  1             5             10             15
Ala Lys Gly Lys Val Lys Ile Ala Phe His Ile Val Ser Glu Val
  20             25             30
Gln Leu Leu Arg Leu Ile Asn Glu Ser Cys Ser Ile Lys Gly Leu Thr
  35             40             45

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<210> 232

<211> 25

<212> PRT

<213> Homo sapiens

<400> 232

Met Arg Tyr Ile His Val Glu Phe Cys Ser Cys Gly Leu Met Ile Phe

1

5

10

15

Thr Leu Tyr Ser Ile Thr Phe His Gly

20

25

<210> 233

<211> 55

<212> PRT

<213> Homo sapiens

<400> 233

Met Leu Pro Thr Pro Val Pro Thr Ile Glu Ala Leu Leu Phe Met Leu

1

5

10

15

Lys Cys Gln Val Leu Thr Val His Gly Ser Met Glu Thr Phe Leu Leu

20

25

30

Phe Ser Val Val Leu Gly Ala Ser Leu Leu Val Asn Leu Arg Lys Ile

35

40

45

Gly Asp Ser Val Asn Leu Glu

50

55

<210> 234

<211> 148

<212> PRT

<213> Homo sapiens

<400> 234

Met Gly Arg Ile Arg Pro Asp His Thr Leu Leu Phe Gln Arg Gly Pro

1

5

10

15

Val Pro Ala Pro Leu Thr Ser Gly Leu His Tyr Tyr Thr Thr Leu Glu

20

25

30

Glu Leu Trp Lys Ser Phe Asp Leu Cys Glu Asp Tyr Phe Lys Pro Pro

35

40

45

Phe Gly Pro Tyr Pro Glu Lys Ser Gly Lys Asp Ser Leu Val Ser Met

50

55

60

Lys Cys Ser Leu Phe Arg Phe Cys Pro Trp Ser Lys Glu Leu Pro Phe
 65 70 75 80

Gln Pro Pro Glu Gly Ser Ile Ser Ser His Leu Gly Ser Gly Ala Ser
 85 90 95

Asp Ser Glu Thr Glu Glu Thr Arg Lys Ala Leu Pro Ile Gln Ser Phe
 100 105 110

Ser His Glu Lys Glu Ser His Gln His Arg Gln His Ser Val Pro Val
 115 120 125

Ile Ser Arg Pro Gly Ser Asn Val Lys Pro Thr Leu Pro Pro Ile Pro
 130 135 140

Gln Gly Arg Arg
 145

<210> 235

<211> 940

<212> PRT

<213> Homo sapiens

<400> 235

Glu Tyr Thr Ser Phe Ser Ala Leu His Asn Thr Tyr Ser Lys Ile Asp
 1 5 10 15

His Ile Val Gly Ser Lys Ala Leu Leu Ser Lys Cys Lys Arg Thr Glu
 20 25 30

Met Ile Thr Asn Cys Leu Ser Asp His Ser Ala Ile Lys Leu Glu Leu
 35 40 45

Arg Ile Lys Lys Leu Thr Gln Asn Cys Ser Thr Thr Trp Lys Leu Asn
 50 55 60

Asn Leu Leu Leu Asn Asp Tyr Cys Val His Asn Lys Met Lys Ala Glu
 65 70 75 80

Ile Lys Met Phe Phe Glu Thr Asn Glu Asn Lys Asp Thr Thr Tyr Gln
 85 90 95

Asn Leu Trp Asp Thr Phe Lys Ala Val Cys Arg Gly Asn Phe Ile Ala
 100 105 110

Leu Asn Val His Lys Arg Lys Gln Glu Arg Ser Lys Ile Asp Thr Leu

115				120				125							
Ile	Ser	Gln	Leu	Lys	Glu	Leu	Glu	Lys	Gln	Glu	Gln	Thr	His	Ser	Lys
130				135				140							
Ala	Ser	Arg	Arg	Gln	Glu	Ile	Thr	Lys	Ile	Arg	Ala	Glu	Val	Lys	Glu
145				150				155				160			
Ile	Glu	Thr	Gln	Lys	Thr	Phe	Lys	Arg	Ile	Asn	Glu	Ser	Arg	Asn	Trp
165				170				175							
Phe	Phe	Glu	Arg	Ile	Ser	Lys	Ile	Asp	Arg	Pro	Leu	Ala	Arg	Leu	Ile
180				185				190							
Lys	Lys	Lys	Arg	Glu	Lys	Asn	Gln	Ile	Asp	Ala	Ile	Asn	Thr	His	Asp
195				200				205							
Lys	Gly	Asp	Ile	Thr	Thr	Asp	Pro	Thr	Glu	Ile	Gln	Thr	Thr	Ile	Arg
210				215				220							
Glu	Tyr	Tyr	Lys	His	Phe	Tyr	Ala	Asn	Lys	Leu	Glu	Asn	Leu	Glu	Glu
225				230				235				240			
Met	Asp	Lys	Phe	Leu	Asp	Thr	Tyr	Thr	Leu	Pro	Arg	Leu	Asn	Gln	Glu
245				250				255							
Glu	Ala	Glu	Ser	Leu	Asn	Arg	Pro	Ile	Thr	Asp	Ser	Glu	Ile	Ala	Ala
260				265				270							
Ile	Ile	Asn	Ser	Leu	Pro	Thr	Lys	Lys	Ser	Pro	Gly	Pro	Asp	Gly	Phe
275				280				285							
Thr	Pro	Lys	Phe	Tyr	Gln	Arg	Tyr	Lys	Glu	Glu	Leu	Val	Pro	Phe	Leu
290				295				300							
Leu	Lys	Leu	Phe	Gln	Ser	Ile	Thr	Lys	Glu	Gly	Ile	Leu	Pro	Asn	Ser
305				310				315				320			
Phe	Tyr	Glu	Ala	Asn	Ile	Ile	Leu	Ile	Leu	Lys	Pro	Gly	Arg	Asp	Thr
325				330				335							
Thr	Lys	Lys	Arg	Glu	Phe	Arg	Pro	Ile	Ser	Met	Met	Ile	Ile	Asp	Ala
340				345				350							
Lys	Ile	Leu	Ser	Lys	Ile	Leu	Ala	Asn	Gln	Ile	Gln	Gln	His	Leu	Ile
355				360				365							
Lys	Leu	Ile	His	His	Asp	Gln	Val	Gly	Phe	Ile	Pro	Gly	Met	Lys	Gly

370		375		380
Trp Phe Asn Ile Arg Lys Ser Ile Lys Val Ile His His Ile Asn Arg				
385		390		395 400
Thr Lys Asp Lys Asn His Met Ile Ile Ser Ile His Ala Glu Lys Ala				
	405		410	415
Phe Asp Lys Ile Gln Gln Pro Phe Met Leu Lys Thr Val Asn Lys Leu				
	420		425	430
Val Ile Asp Gly Thr Tyr Leu Lys Ile Ile Arg Ala Ile Tyr Asp Lys				
	435		440	445
Pro Thr Ala Asn Ile Ile Leu Asn Gly Gln Lys Leu Glu Ala Phe Pro				
	450		455	460
Leu Arg Thr Gly Ile Arg Gln Gly Cys Pro Leu Ser Pro Leu Leu Phe				
	465		470	475 480
Asn Ile Val Leu Glu Val Leu Ala Arg Ala Ile Arg Gln Glu Lys Glu				
	485		490	495
Ile Lys Gly Ile Gln Leu Gly Lys Glu Lys Val Lys Leu Ser Leu Phe				
	500		505	510
Ala Asp Asp Met Ile Leu Tyr Leu Glu Asn Pro Ile Val Ser Ala Gln				
	515		520	525
Asn Leu Leu Lys Leu Met Ser Ser Phe Ser Lys Val Ser Gly Tyr Lys				
	530		535	540
Ile Asn Val Gln Lys Ser Gln Ala Phe Leu Tyr Thr Asn Asn Arg Gln				
	545		550	555 560
Thr Glu Ser Gln Met Ser Glu Leu Pro Phe Ala Ile Ala Ser Lys Arg				
	565		570	575
Ile Lys Tyr Leu Gly Ile Gln Leu Thr Arg Asp Val Lys Asp Leu Phe				
	580		585	590
Lys Glu Asn Tyr Lys Pro Leu Leu Asn Lys Ile Lys Glu Asp Thr Asn				
	595		600	605
Lys Trp Lys Asn Ile Pro Cys Ser Trp Ile Gly Arg Ile Asn Ile Val				
	610		615	620
Lys Met Ala Ile Met Pro Lys Val Ile Tyr Arg Phe Asn Ala Ile Pro				

625		630		635		640
Ile Lys Leu Pro Met Thr Phe Phe Thr Glu Leu Glu Lys Thr Thr Leu						
	645			650		655
Lys Phe Ile Trp Asn Gln Lys Arg Ala Arg Ile Ala Lys Thr Ile Leu						
	660			665		670
Ser Gln Lys Asn Lys Ala Gly Gly Ile Thr Leu Pro Asp Phe Lys Leu						
	675			680		685
Tyr Tyr Lys Ala Thr Val Thr Lys Thr Ala Trp Tyr Trp Tyr Gln Asn						
	690			695		700
Arg Asp Ile Asp Gln Trp Asn Arg Ile Glu Pro Leu Glu Leu Ile Pro						
	705			710		715
His Ile Tyr Asn His Leu Ile Phe Asp Lys Pro Asp Lys Asn Lys Leu						
	725			730		735
Trp Gly Lys Asp Ser Leu Phe Asn Lys Trp Cys Trp Glu Asn Trp Leu						
	740			745		750
Ala Ile Cys Arg Lys Leu Lys Leu Asn Leu Phe Leu Thr Pro Tyr Thr						
	755			760		765
Lys Ile Asn Ser Arg Trp Ile Lys Asp Leu Asn Val Arg Pro Lys Thr						
	770			775		780
Ile Lys Ile Leu Glu Lys Asn Leu Gly Asn Thr Ile Gln Asp Ile Gly						
	785			790		795
Val Gly Lys Asp Phe Met Thr Lys Thr Pro Lys Ala Met Ala Thr Lys						
	805			810		815
Ala Lys Ile Asp Lys Trp Asp Ile Ile Lys Leu Lys Ser Phe Cys Thr						
	820			825		830
Ala Lys Glu Thr Thr Ile Ile Val Asn Arg Gln Pro Thr Glu Trp Glu						
	835			840		845
Lys Ile Phe Lys Ile Tyr Pro Ser Asp Lys Gly Leu Ile Ser Arg Ile						
	850			855		860
Tyr Lys Glu Leu Lys Gln Ile Tyr Lys Lys Lys Ser Asn Asn Pro Ile						
	865			870		875
Lys Asn Trp Ala Lys Asp Met Asn Arg His Phe Ser Lys Glu Asp Ile						

885

890

895

Tyr Ala Val Asn Arg His Met Lys Thr Cys Ser Ser Leu Leu Ala Ile
 900 905 910

Arg Glu Met Gln Ile Lys Thr Thr Met Arg Tyr His Phe Thr Pro Val
 915 920 925

Arg Met Ala Ser Ile Lys Lys Ser Gly Asn Asn Arg
 930 935 940

<210> 236

<211> 58

<212> PRT

<213> Homo sapiens

<400> 236

Met Ala Ile Glu Val Cys Trp Pro Leu Pro Leu Asp Gly Leu Leu Leu
 1 5 10 15

Leu Ala Leu Glu Phe Leu Arg Pro Leu Phe Ile Ile Pro Gln Ser Phe
 20 25 30

Phe Leu Leu Pro Ala Met Leu Cys Leu Phe Phe Ala Leu Leu Ser Pro
 35 40 45

Arg Thr Thr Phe Phe His Phe His Ser Gly
 50 55

<210> 237

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (28)

<400> 237

Met Pro Leu His Leu Gly Tyr Lys Val Ser Pro Pro Pro Gln Ser His
 1 5 10 15

Gly Leu Ala Asn Tyr Leu Ser Val Phe Asp Cys Xaa Val Val Ser Thr
 20 25 30

Gly Glu

<210> 238
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 238
 Met Arg Lys Val Cys Val Pro Ala Phe Met Thr Ile Glu Ser Arg Gln
 1 5 10 15
 Leu Leu Ser Gly Val Ser Ala Cys Phe Gln Gln
 20 25

<210> 239
 <211> 26
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (22)

<400> 239
 Met Thr Ser Ile Thr Val Leu Phe Ser Lys Lys Arg Leu Ser Leu Met
 1 5 10 15
 Ala Ser Arg Cys Val Xaa Leu Met Arg Tyr
 20 25

<210> 240
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 240
 Met Lys Ser Gln Leu Gln Ser Leu His Pro Phe Phe Ser Lys Leu Ala
 1 5 10 15
 Leu Leu Val Ser Val Leu Phe Tyr Ile Ile Trp Leu His Leu Thr Val
 20 25 30
 Phe Lys Lys Ser Ser Val Leu Gln Lys Asn Phe Lys Leu
 35 40 45

<210> 241
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 241
 Met Ile Gly Ile Thr Trp Cys Phe Glu Leu Ile His Pro Thr Leu Glu
 1 5 10 15
 Leu Thr Ala Thr Val Pro Asp Phe His Arg Tyr Ala Ser Phe His Ser
 20 25 30
 Gly Ser Leu Pro Glu Val Leu His Ser Gly Glu His Ala Gln Val Ser
 35 40 45
 Pro Ala Leu Gln Asn His Pro Glu Cys Gln Arg Leu Gln His Lys Gly
 50 55 60
 Lys
 65

<210> 242
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 242
 Ile Phe Thr Ala Met Pro Pro Phe Thr Leu Gly Val Phe Gln Arg Ser
 1 5 10 15
 Cys Thr Arg Glu Ser Met Leu Arg Phe Pro Gln Leu Tyr Lys Ile Thr
 20 25 30
 Gln Asn Ala Lys Asp Phe Asn Thr Arg Val
 35 40

<210> 243
 <211> 40
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (2)

<400> 243

Met Xaa Leu Val Leu Leu Thr Arg Leu Ile Arg Arg Ser Leu Tyr Thr
 1 5 10 15

Lys Arg Asn Leu Leu Ser His Ser His Asn Lys Thr Ser His Gln Thr
 20 25 30

Asn Asp Thr Lys Ser Glu Asn His
 35 40

<210> 244

<211> 56

<212> PRT

<213> Homo sapiens

<400> 244

Met Phe Pro Glu Leu Ala Ser Leu Tyr Pro Gly Lys Gly Thr Ser Phe
 1 5 10 15

Ser Trp Ala Val Pro Pro Pro Gln Lys Pro Glu Ser Gln Pro Cys Arg
 20 25 30

Val Pro Ser Ser Ser Phe Gln Ile Gln Ile Thr Pro Thr Ser Ser Leu
 35 40 45

Gly Ser Pro Ser Leu Arg Thr Gln
 50 55

<210> 245

<211> 26

<212> PRT

<213> Homo sapiens

<400> 245

Met Lys Lys Pro Glu Ala Glu Ala Ala Leu Thr Leu Arg Asn Pro Val
 1 5 10 15

Ser Gln Arg Asp Leu Ala Ile Leu Ala Ser
 20 25

<210> 246

<211> 43

<212> PRT

<213> Homo sapiens

<400> 246

Met Pro Ile Tyr Pro Cys Pro Cys Arg Val Gly Arg Lys Asn Leu Met
 1 5 10 15

Leu Ala Asn Ser Pro His Phe Asn Ser Thr Leu Gln Thr Leu Ser Lys
 20 25 30

Cys Leu Leu Phe Val Arg Gln Tyr Ala Ser His
 35 40

<210> 247

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (12)..(33)

<400> 247

Met Lys Gln Trp Asp Ala Val Arg Lys Arg Lys Xaa Xaa Xaa Xaa Xaa
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

Xaa Cys Arg Gly Lys Val Asn Lys Asn Cys Ile Ile Leu Gly Val Phe
 35 40 45

Cys

<210> 248

<211> 24

<212> PRT

<213> Homo sapiens

<400> 248

Met Pro Tyr Asp Ser Thr Tyr Ile Lys Ser Lys His Gln Ala Val Leu
 1 5 10 15

Ser Met Ile Val Lys Leu Val Gly
 20

<210> 249

<211> 30

<212> PRT

<213> Homo sapiens

<400> 249

Met His Ile Ser Phe Gly Ile Gln Ile Ile Val Asn Asp Gly Glu Leu

1

5

10

15

Thr Ser Asn Ile Ser Ser Tyr Thr Thr Asn Val Ile Lys Pro

20

25

30

<210> 250

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (136)

<400> 250

Met Pro Ser Val Arg Ala His Pro Asn Pro Arg Ala Glu Gly His Glu

1

5

10

15

Gly Ala Lys Ser Leu Arg Asn Ala Ile Leu Arg Leu Val Arg Asp Met

20

25

30

Glu Ile Arg Thr Gln Gly Gly Pro Gly Leu Gly Asn Asp Trp Glu Thr

35

40

45

Cys Leu Gly Ser Gln Asp Leu Gly Val Leu Thr Pro Ser Pro His Pro

50

55

60

Ala Val Pro Ser Val Pro Ser Pro Ser Leu Ser Lys Pro Leu Gly Ile

65

70

75

80

Glu Trp Pro Leu Leu Phe Trp Cys Pro Gly Val Ile Val Pro Lys Leu

85

90

95

Leu Phe Pro Val Pro Ser Pro Gln Arg Leu Val Arg Val Gly Met Arg

100

105

110

Asp Gly Glu Gly Leu Gly Leu Trp Glu Gln Val Gly Gly Leu Ile Cys

115

120

125

Gly Leu Ser Asp Ser Gln Leu Xaa Pro Arg Trp Gly Met Ser Pro Ser

130

135

140

Leu Leu Ser Val Trp Val Arg Lys Thr Gly Cys Asp Pro Glu Glu Gly
145 150 155 160

Lys Ile Glu Lys Glu Gly Lys Asp Val Gly Glu Gly Gly Glu Arg Gln
165 170 175

Asp Arg Arg Lys Glu Val Glu Glu Glu Val Val Gly Ile Gly Met Arg
180 185 190

<210> 251

<211> 45

<212> PRT

<213> Homo sapiens

<400> 251

Met Gln Phe Cys Lys Ile Lys Cys Leu Ser Arg His Ala Tyr Asn Pro
1 5 10 15

Ala Ile Ala Cys Leu Gly Ala Tyr Leu Thr Glu Met Asn Ile Tyr Asn
20 25 30

Tyr Ile Ile Ile Cys Thr Pro Asn Ser Ser Gln Leu Tyr
35 40 45

<210> 252

<211> 169

<212> PRT

<213> Homo sapiens

<400> 252

Met Ala Pro Ser Glu Asp Pro Arg Asp Trp Arg Ala Asn Leu Lys Gly
1 5 10 15

Thr Ile Arg Glu Thr Gly Leu Glu Thr Ser Ser Gly Gly Lys Leu Ala
20 25 30

Gly His Gln Lys Thr Val Pro Thr Ala His Leu Thr Phe Val Ile Asp
35 40 45

Cys Thr His Gly Lys Gln Leu Ser Leu Ala Ala Thr Ala Ser Pro Pro
50 55 60

Gln Ala Pro Ser Pro Asn Arg Gly Leu Val Thr Pro Pro Met Lys Thr
 65 70 75 80

Tyr Ile Val Phe Cys Gly Glu Asn Trp Pro His Leu Thr Arg Val Thr
 85 90 95

Pro Met Gly Gly Gly Cys Leu Ala Gln Ala Arg Ala Thr Leu Pro Leu
 100 105 110

Cys Arg Gly Ser Val Ala Ser Ala Ser Phe Pro Val Ser Pro Leu Cys
 115 120 125

Pro Gln Glu Val Pro Glu Ala Lys Gly Lys Pro Val Lys Ala Ala Pro
 130 135 140

Val Arg Ser Ser Thr Trp Gly Thr Val Lys Asp Ser Leu Lys Ala Leu
 145 150 155 160

Ser Ser Cys Val Cys Gly Gln Ala Asp
 165

<210> 253

<211> 69

<212> PRT

<213> Homo sapiens

<400> 253

Met Phe Asn Val Arg Leu His Gln Asn Met Cys Gln Leu Thr Met Phe
 1 5 10 15

Asn Met Phe His Leu Gln Asn Phe Leu Glu Gly Lys Lys Ser Phe Leu
 20 25 30

Val Asn Met Phe Phe Cys Leu Cys Phe Ile Ile Leu Ser Thr Met Asp
 35 40 45

Thr Gly Asn Gln Ser Thr Val Asn Asn His Arg His His Phe Val Val
 50 55 60

Leu Phe Leu Arg Val
 65

<210> 254

<211> 33

<212> PRT

<213> Homo sapiens

<400> 254

Met Glu Val Arg Ser Val Ile Pro Gln Val Leu Asn Ala Trp Ala Ser
 1 5 10 15

Leu Met Ser Phe Tyr Gln Leu Ser Ala Thr Cys Val Lys Phe His Leu
 20 25 30

Ser

<210> 255

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (59)

<220>

<221> UNSURE

<222> (65)

<400> 255

Met Trp Thr Thr Cys Asn Val Thr Lys Gln Lys Glu Thr Gln Glu Ala
 1 5 10 15

Asn Ile Pro Ile Tyr Ser Pro Leu Ser Ala Leu Thr Gln Gln Asn Lys
 20 25 30

Thr Lys Pro Ala Thr Thr Ile Arg Phe Val Lys Ile Leu Val Val Arg
 35 40 45

Ile Pro Thr Leu Ser Ser Gln Gln Phe Gly Xaa Gln Lys Ser Leu Val
 50 55 60

Xaa Met Ser Val His Val Lys Ser
 65 70

<210> 256

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (31) .. (93)

<220>

<221> UNSURE

<222> (111) .. (121)

<400> 256

Met Tyr Ala Ser Asn Asn Leu Ser Arg Gly Arg Ile Pro Lys Glu Asn
1 5 10 15

Ile Cys Ser Ser Phe Phe Leu Leu Arg Phe Phe Cys Ile Phe Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Thr Val Phe
85 90 95

Pro Leu Leu Ser Tyr Asn Asn Gln His Arg Arg Leu Leu Trp Xaa Gln
100 105 110

Met Trp Gly Asn Phe Phe His Ala Lys Xaa Ala Val Arg Ala Ala Val
115 120 125

Ser Pro Thr
130

<210> 257

<211> 44

<212> PRT

<213> Homo sapiens

<400> 257

Glu Ser Phe Tyr Asp Thr Phe His Thr Val Ala Asp Met Met Tyr Phe
1 5 10 15

Cys Gln Met Leu Ala Val Val Glu Thr Ile Asn Ala Ala Ile Gly Val
20 25 30

Thr Thr Ser Pro Val Leu Pro Ser Leu Ile Gln Val
 35 40

<210> 258
 <211> 70
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (8)..(52)

<220>
 <221> UNSURE
 <222> (57)

<400> 258
 Met Phe Ile Phe Thr Phe His Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45
 Xaa Xaa Xaa Xaa Cys Phe Phe Pro Xaa Trp Phe Leu Phe Leu Leu
 50 55 60
 Arg Ser Val Ser Phe Cys
 65 70

<210> 259
 <211> 61
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (16)..(53)

<400> 259
 Met Lys Ile Thr Tyr Leu Asp Ile Leu Glu Lys Tyr Ile His Ser Xaa
 1 5 10 15
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20	25	30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa		
35	40	45
Xaa Xaa Xaa Xaa Xaa Glu Ser Thr Gln Ile Gly Pro Glu		
50	55	60
 <210> 260		
<211> 2383		
<212> PRT		
<213> Homo sapiens		
 <400> 260		
Met Glu Thr Arg Ser Pro Gly Leu Asn Asn Met Lys Pro Gln Ser Leu		
1	5	10 15
Gln Leu Val Leu Glu Glu Gln Val Leu Ala Leu Gln Gln Gln Met Ala		
20	25	30
Glu Asn Gln Ala Ala Ser Trp Arg Lys Leu Lys Asn Ser Gln Glu Ala		
35	40	45
Gln Gln Arg Gln Ala Thr Leu Val Arg Lys Leu Gln Ala Lys Val Leu		
50	55	60
Gln Tyr Arg Ser Trp Cys Gln Glu Leu Glu Lys Arg Leu Glu Ala Thr		
65	70	75 80
Gly Gly Pro Ile Pro Gln Arg Trp Glu Asn Val Glu Glu Pro Asn Leu		
85	90	95
Asp Glu Leu Leu Val Arg Leu Glu Glu Glu Gln Gln Arg Cys Glu Ser		
100	105	110
Leu Ala Gln Val Asn Thr Gln Leu Arg Leu His Met Glu Lys Ala Asp		
115	120	125
Val Val Asn Lys Ala Leu Arg Glu Asp Val Glu Lys Leu Thr Val Asp		
130	135	140
Trp Ser Arg Ala Arg Asp Glu Leu Met Arg Lys Glu Ser Gln Trp Gln		
145	150	155 160
Met Glu Gln Glu Trp Ser Leu Leu Phe Ser Leu Leu Val Leu Arg Asp		
165	170	175

Leu Met Glu Leu Lys Ala Glu His Val Arg Leu Ser Gly Ser Leu Leu
 180 185 190
 Thr Cys Cys Leu Arg Leu Thr Val Gly Ala Gln Ser Arg Glu Pro Asn
 195 200 205
 Gly Ser Gly Arg Met Asn Gly Arg Glu Pro Ala Gln Leu Leu Leu Leu
 210 215 220
 Leu Ala Lys Thr Gln Glu Leu Glu Lys Glu Ala His Glu Arg Ser Gln
 225 230 235 240
 Glu Leu Ile Gln Leu Lys Ser Gln Gly Asp Leu Glu Lys Ala Glu Leu
 245 250 255
 Gln Asp Arg Val Thr Glu Leu Ser Ala Leu Leu Thr Gln Ser Gln Lys
 260 265 270
 Gln Asn Glu Asp Tyr Glu Lys Met Ile Lys Ala Leu Arg Glu Thr Val
 275 280 285
 Glu Ile Leu Glu Thr Asn His Thr Glu Leu Met Glu His Glu Ala Ser
 290 295 300
 Leu Ser Arg Asn Ala Gln Glu Glu Lys Leu Ser Leu Gln Gln Val Ile
 305 310 315 320
 Lys Asp Ile Thr Gln Val Met Val Glu Glu Gly Asp Asn Ile Ala Gln
 325 330 335
 Gly Ser Gly His Glu Asn Ser Leu Glu Leu Asp Ser Ser Ile Phe Ser
 340 345 350
 Gln Phe Asp Tyr Gln Asp Ala Asp Lys Ala Leu Thr Leu Val Arg Ser
 355 360 365
 Val Leu Thr Arg Arg Arg Gln Ala Val Gln Asp Leu Arg Gln Gln Leu
 370 375 380
 Ala Gly Cys Gln Glu Ala Val Asn Leu Leu Gln Gln Gln His Asp Gln
 385 390 395 400
 Trp Glu Glu Glu Gly Lys Ala Leu Arg Gln Arg Leu Gln Lys Leu Thr
 405 410 415
 Gly Glu Arg Asp Thr Leu Ala Gly Gln Thr Val Asp Leu Gln Gly Glu
 420 425 430

His Gln Glu Ala Lys Arg Gln Glu Glu Val Leu Ala Arg Ala Val Gln
 690 695 700
 Glu Lys Glu Ala Leu Val Arg Glu Lys Ala Ala Leu Glu Val Arg Leu
 705 710 715 720
 Gln Ala Val Glu Arg Asp Arg Gln Asp Leu Ala Glu Gln Leu Gln Gly
 725 730 735
 Leu Ser Ser Ala Lys Glu Leu Leu Glu Ser Ser Leu Phe Glu Ala Gln
 740 745 750
 Gln Gln Asn Ser Val Ile Glu Val Thr Lys Gly Gln Leu Glu Val Gln
 755 760 765
 Ile Gln Thr Val Thr Gln Ala Lys Glu Val Ile Gln Gly Glu Val Arg
 770 775 780
 Cys Leu Lys Leu Glu Leu Asp Thr Glu Arg Ser Gln Ala Glu Gln Glu
 785 790 795 800
 Arg Asp Ala Ala Ala Arg Gln Leu Ala Gln Ala Glu Gln Glu Gly Lys
 805 810 815
 Thr Ala Leu Glu Gln Gln Lys Ala Ala His Glu Lys Glu Val Asn Gln
 820 825 830
 Leu Arg Glu Lys Trp Glu Lys Glu Arg Ser Trp His Gln Gln Glu Leu
 835 840 845
 Ala Lys Ala Leu Glu Ser Leu Glu Arg Glu Lys Met Glu Leu Glu Met
 850 855 860
 Arg Leu Lys Glu Gln Gln Thr Glu Met Glu Ala Ile Gln Ala Gln Arg
 865 870 875 880
 Glu Glu Glu Arg Thr Gln Ala Glu Ser Ala Leu Cys Gln Met Gln Leu
 885 890 895
 Glu Thr Glu Lys Glu Arg Val Ser Leu Leu Glu Thr Leu Leu Gln Thr
 900 905 910
 Gln Lys Glu Leu Ala Asp Ala Ser Gln Gln Leu Glu Arg Leu Arg Gln
 915 920 925
 Asp Met Lys Val Gln Lys Leu Lys Glu Gln Glu Thr Thr Gly Ile Leu
 930 935 940

Leu Phe Lys Arg Gly Pro Leu Leu Thr Ala Leu Ser Ala Glu Ala Val
 1205 1210 1215
 Ala Ser Ala Leu His Lys Leu His Gln Asp Leu Trp Lys Thr Gln Gln
 1220 1225 1230
 Thr Arg Asp Val Leu Arg Asp Gln Val Gln Lys Leu Glu Glu Arg Leu
 1235 1240 1245
 Thr Asp Thr Glu Ala Glu Lys Ser Gln Val His Thr Glu Leu Gln Asp
 1250 1255 1260
 Leu Gln Arg Gln Leu Ser Gln Asn Gln Glu Glu Lys Ser Lys Trp Glu
 1265 1270 1275 1280
 Gly Lys Gln Asn Ser Leu Glu Ser Glu Leu Met Glu Leu His Glu Thr
 1285 1290 1295
 Met Ala Ser Leu Gln Ser Arg Leu Arg Arg Ala Glu Leu Gln Arg Met
 1300 1305 1310
 Glu Ala Gln Gly Glu Arg Glu Leu Leu Gln Ala Ala Lys Glu Asn Leu
 1315 1320 1325
 Thr Ala Gln Val Glu His Leu Gln Ala Ala Val Val Glu Ala Arg Ala
 1330 1335 1340
 Gln Ala Ser Ala Ala Gly Ile Leu Glu Glu Asp Leu Arg Thr Ala Arg
 1345 1350 1355 1360
 Ser Ala Leu Lys Leu Lys Asn Glu Glu Val Glu Ser Glu Arg Glu Arg
 1365 1370 1375
 Ala Gln Ala Leu Gln Glu Gln Gly Glu Leu Lys Val Ala Gln Gly Lys
 1380 1385 1390
 Ala Leu Gln Glu Asn Leu Ala Leu Leu Thr Gln Thr Leu Ala Glu Arg
 1395 1400 1405
 Glu Glu Glu Val Glu Thr Leu Arg Gly Gln Ile Gln Glu Leu Glu Lys
 1410 1415 1420
 Gln Arg Glu Met Gln Lys Ala Ala Leu Glu Leu Leu Ser Leu Asp Leu
 1425 1430 1435 1440
 Lys Lys Arg Asn Gln Glu Val Asp Leu Gln Gln Glu Gln Ile Gln Glu
 1445 1450 1455

Val Glu Cys Gln Gln Glu His Ile His Glu Leu Gln Glu Leu Lys Asp
 1715 1720 1725

Gln Leu Glu Gln Gln Leu Gln Gly Leu His Arg Lys Val Gly Glu Thr
 1730 1735 1740

Ser Leu Leu Leu Ser Gln Arg Glu Gln Glu Ile Val Val Leu Gln Gln
 1745 1750 1755 1760

Gln Leu Gln Glu Ala Arg Glu Gln Gly Glu Leu Lys Glu Gln Ser Leu
 1765 1770 1775

Gln Ser Gln Leu Asp Glu Ala Gln Arg Ala Leu Ala Gln Arg Asp Gln
 1780 1785 1790

Glu Leu Glu Ala Leu Gln Gln Glu Gln Gln Gln Ala Gln Gly Gln Glu
 1795 1800 1805

Glu Arg Val Lys Glu Lys Ala Asp Ala Leu Gln Gly Ala Leu Glu Gln
 1810 1815 1820

Ala His Met Thr Leu Lys Glu Arg His Gly Glu Leu Gln Asp His Lys
 1825 1830 1835 1840

Glu Gln Ala Arg Arg Leu Glu Glu Glu Leu Ala Val Glu Gly Arg Arg
 1845 1850 1855

Val Gln Ala Leu Glu Glu Val Leu Gly Asp Leu Arg Ala Glu Ser Arg
 1860 1865 1870

Glu Gln Glu Lys Ala Leu Leu Ala Leu Gln Gln Gln Cys Ala Glu Gln
 1875 1880 1885

Ala Gln Glu His Glu Val Glu Thr Arg Ala Leu Gln Asp Ser Trp Leu
 1890 1895 1900

Gln Ala Gln Ala Val Leu Lys Glu Arg Asp Gln Glu Leu Glu Ala Leu
 1905 1910 1915 1920

Arg Ala Glu Ser Gln Ser Ser Arg His Gln Glu Glu Ala Ala Arg Ala
 1925 1930 1935

Arg Ala Glu Ala Leu Gln Glu Ala Leu Gly Lys Ala His Ala Ala Leu
 1940 1945 1950

Gln Gly Lys Glu Gln His Leu Leu Glu Gln Ala Glu Leu Ser Arg Ser
 1955 1960 1965

Leu Glu Ala Ser Thr Ala Thr Leu Gln Ala Ser Leu Asp Ala Cys Gln
 1970 1975 1980

Ala His Ser Arg Gln Leu Glu Glu Ala Leu Arg Ile Gln Glu Gly Glu
 1985 1990 1995 2000

Ile Gln Asp Gln Asp Leu Arg Tyr Gln Glu Asp Val Gln Gln Leu Gln
 2005 2010 2015

Gln Ala Leu Ala Gln Arg Asp Glu Glu Leu Arg His Gln Gln Glu Arg
 2020 2025 2030

Glu Gln Leu Leu Glu Lys Ser Leu Ala Gln Arg Val Gln Glu Asn Met
 2035 2040 2045

Ile Gln Glu Lys Gln Asn Leu Gly Gln Glu Arg Glu Glu Glu Ile
 2050 2055 2060

Arg Gly Leu His Gln Ser Val Arg Glu Leu Gln Leu Thr Leu Ala Gln
 2065 2070 2075 2080

Lys Glu Gln Glu Ile Leu Glu Leu Arg Glu Thr Gln Gln Arg Asn Asn
 2085 2090 2095

Leu Glu Ala Leu Pro His Ser His Lys Thr Ser Pro Met Glu Glu Gln
 2100 2105 2110

Ser Leu Lys Leu Asp Ser Leu Glu Pro Arg Leu Gln Arg Glu Leu Glu
 2115 2120 2125

Arg Leu Gln Ala Ala Leu Arg Gln Thr Glu Ala Arg Glu Ile Glu Trp
 2130 2135 2140

Arg Glu Lys Ala Gln Asp Leu Ala Leu Ser Leu Ala Gln Thr Lys Ala
 2145 2150 2155 2160

Ser Val Ser Ser Leu Gln Glu Val Ala Met Phe Leu Gln Ala Ser Val
 2165 2170 2175

Leu Glu Arg Asp Ser Glu Gln Gln Arg Leu Gln Asp Glu Leu Glu Leu
 2180 2185 2190

Thr Arg Arg Ala Leu Glu Lys Glu Arg Leu His Ser Pro Gly Ala Thr
 2195 2200 2205

Ser Thr Ala Glu Leu Gly Ser Arg Gly Glu Gln Gly Val Gln Leu Gly
 2210 2215 2220

Glu Val Ser Gly Val Glu Ala Glu Pro Ser Pro Asp Gly Met Glu Lys
 2225 2230 2235 2240

Gln Ser Trp Arg Gln Arg Leu Glu His Leu Gln Gln Ala Val Ala Arg
 2245 2250 2255

Leu Glu Ile Asp Arg Ser Arg Leu Gln Arg His Asn Val Gln Leu Arg
 2260 2265 2270

Ser Thr Leu Glu Gln Asp Gly Arg Gly Gln Lys Asn Ser Asp Ala Lys
 2275 2280 2285

Cys Val Ala Glu Leu Gln Lys Glu Val Val Leu Leu Gln Ala Gln Leu
 2290 2295 2300

Thr Leu Glu Arg Lys Gln Lys Gln Asp Tyr Ile Thr Arg Ser Ala Gln
 2305 2310 2315 2320

Thr Ser Arg Glu Leu Ala Gly Leu His His Ser Leu Ser His Ser Leu
 2325 2330 2335

Leu Ala Val Ala Gln Ala Pro Glu Ala Thr Val Leu Glu Ala Glu Thr
 2340 2345 2350

Arg Arg Leu Asp Glu Ser Leu Thr Gln Ser Leu Thr Ser Pro Gly Pro
 2355 2360 2365

Val Leu Leu His Pro Ser Pro Ser Thr Thr Gln Ala Ala Ser Arg
 2370 2375 2380

<210> 261

<211> 43

<212> PRT

<213> Homo sapiens

<400> 261

Met Tyr Arg Leu Ile Leu Phe Arg Asn Asn Ser Val Leu Glu Phe Ile
 1 5 10 15

Lys Asn Ser Val Ile Ala Phe Ile Pro Lys Cys Leu Thr Leu Pro Thr
 20 25 30

Ala Ser His Lys Ser Ile Tyr Phe Lys Ala Phe
 35 40

<210> 262

<211> 34

<212> PRT

<213> Homo sapiens

<400> 262

Met Asp Pro Asn Phe Asp Ile Val His Thr Val Phe Ile Leu Cys Met

1

5

10

15

Glu Leu Ile Thr Asp Phe Ala Cys Lys Glu Arg Ile Val Cys Leu Asn

20

25

30

Phe Val

<210> 263

<211> 78

<212> PRT

<213> Homo sapiens

<400> 263

Met Met Glu Asn Ser Ala Pro Asn Ser Leu Met Asn Lys Glu Met Asp

1

5

10

15

His Leu Met Asp Glu Gly Val Gln Arg Thr Arg Val Ala Leu Gly Gln

20

25

30

Trp Leu Val Ala Ala Val Ile Gln Asp Leu Gly Ser Val Leu Cys Pro

35

40

45

Leu Pro Pro Ser Val Leu Ala Ser Arg Trp Gln Gly Val Ser Phe Pro

50

55

60

Glu Ser His Gln Leu Arg Gln Asn Pro Glu Ala Gly Lys Thr

65

70

75

<210> 264

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (15)..(72)

<400> 264

Met Gly Ile Tyr Ile Ile Tyr Ser Pro Arg Thr Val Ile Arg Xaa Xaa

1 5 10 15
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 50 55 60
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 65 70 75 80
 Leu Val Leu Gly Phe
 85

<210> 265

<211> 471

<212> PRT

<213> Homo sapiens

<400> 265

Leu Ser Phe Gln Ser Gly Asn Ile Ile Val Ala Thr Pro Gly Arg Leu
 1 5 10 15
 Glu Asp Met Phe Arg Arg Lys Ala Glu Gly Leu Asp Leu Ala Ser Cys
 20 25 30
 Val Arg Ser Leu Asp Val Leu Val Leu Asp Glu Ala Asp Arg Leu Leu
 35 40 45
 Asp Met Gly Phe Glu Ala Ser Ile Asn Thr Ile Leu Glu Phe Leu Pro
 50 55 60
 Lys Gln Arg Arg Thr Gly Leu Phe Ser Ala Thr Gln Thr Gln Glu Val
 65 70 75 80
 Glu Asn Leu Val Arg Ala Gly Leu Arg Asn Pro Val Arg Val Ser Val
 85 90 95
 Lys Glu Lys Gly Val Ala Ala Ser Ser Ala Gln Lys Thr Pro Ser Arg
 100 105 110
 Leu Glu Asn Tyr Tyr Met Val Cys Lys Ala Asp Glu Lys Phe Asn Gln
 115 120 125

Leu Val His Phe Leu Arg Asn His Lys Gln Glu Lys His Leu Val Phe
 130 135 140
 Phe Gly Thr Cys Ala Cys Val Glu Tyr Tyr Gly Lys Ala Leu Glu Val
 145 150 155 160
 Leu Val Lys Gly Val Lys Ile Met Cys Ile His Gly Lys Met Lys Tyr
 165 170 175
 Lys Arg Asn Lys Ile Phe Met Glu Phe Arg Lys Leu Gln Gly Gly Ile
 180 185 190
 Leu Val Cys Thr Asp Val Met Ala Arg Gly Ile Asp Ile Pro Glu Val
 195 200 205
 Asn Trp Val Leu Gln Tyr Asp Pro Pro Ser Asn Ala Ser Ala Phe Val
 210 215 220
 His Arg Cys Gly Arg Thr Ala Arg Ile Gly His Gly Gly Ser Ala Leu
 225 230 235 240
 Val Phe Leu Leu Pro Met Glu Glu Ser Tyr Ile Asn Phe Leu Ala Ile
 245 250 255
 Asn Gln Lys Cys Pro Leu Gln Glu Met Lys Pro Gln Arg Asn Thr Ala
 260 265 270
 Asp Leu Leu Pro Lys Leu Lys Ser Met Ala Leu Ala Asp Arg Ala Val
 275 280 285
 Phe Glu Lys Gly Met Lys Ala Phe Val Ser Tyr Val Gln Ala Tyr Ala
 290 295 300
 Lys His Glu Cys Asn Leu Ile Phe Arg Leu Lys Asp Leu Asp Phe Ala
 305 310 315 320
 Ser Leu Ala Arg Gly Phe Ala Leu Leu Arg Met Pro Lys Met Pro Glu
 325 330 335
 Leu Arg Gly Lys Gln Phe Pro Asp Phe Val Pro Val Asp Val Asn Thr
 340 345 350
 Asp Thr Ile Pro Phe Lys Asp Lys Ile Arg Glu Lys Gln Arg Gln Lys
 355 360 365
 Leu Leu Glu Gln Gln Arg Arg Glu Lys Thr Glu Asn Glu Gly Arg Arg
 370 375 380

Lys Phe Ile Lys Asn Lys Ala Trp Ser Lys Gln Lys Ala Lys Lys Glu
 385 390 395 400

Lys Lys Lys Lys Met Asn Glu Lys Arg Lys Arg Glu Glu Gly Ser Asp
 405 410 415

Ile Glu Asp Glu Asp Met Glu Glu Leu Leu Asn Asp Thr Arg Leu Leu
 420 425 430

Lys Lys Leu Lys Lys Gly Lys Ile Thr Glu Glu Glu Phe Glu Lys Gly
 435 440 445

Leu Leu Thr Thr Gly Lys Arg Thr Ile Lys Thr Val Asp Leu Gly Ile
 450 455 460

Ser Asp Leu Glu Asp Asp Cys
 465 470

<210> 266
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 266
 Met Met Thr Ser Leu Ser Tyr Ser Ser Gln Ser Trp Lys Pro Cys Ser
 1 5 10 15

Gln Ser Phe Lys
 20

<210> 267
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 267
 Met Val Phe Leu Glu Ile Ile Phe Cys Pro Met Tyr Ser Ile Phe Ile
 1 5 10 15

His Thr Gly Phe Ile Met Ile Ile Ser Lys
 20 25

<210> 268
 <211> 55
 <212> PRT

<213> Homo sapiens

<400> 268

Met Leu Arg Gly Asp Leu Pro Gly Ser Val Leu Pro Leu Ser Leu Arg
1 5 10 15

Leu Asn Gly Ala Pro Pro Arg Leu Leu Pro Gly Lys Lys His Ser Gly
20 25 30

Gln Ala Gly Pro Glu Pro Val Ser Val Arg Gly Pro Val Ala Cys Pro
35 40 45

Gly Gly Arg Ser Leu Gln Gly
50 55

<210> 269

<211> 38

<212> PRT

<213> Homo sapiens

<400> 269

Met Asn Glu Ala Asn Arg Leu Phe Phe Val Ser Leu Thr Pro Arg Asn
1 5 10 15

Ile Met Ile Pro Tyr Lys Ile Leu Ile His Thr His Asp Gln Tyr Phe
20 25 30

Ile Pro Thr Glu Thr Val
35

<210> 270

<211> 71

<212> PRT

<213> Homo sapiens

<400> 270

Met Leu Thr Leu Val Tyr Leu Val Val Glu Asn Gly Leu Leu Pro Leu
1 5 10 15

Phe Pro Glu Leu Thr Leu Phe Pro Leu Ala Arg Arg Ser Gly Gln Arg
20 25 30

Glu Pro Arg Thr Glu Val Pro Thr Thr Gln Gln Ala Leu Ser Ser Pro
35 40 45

Leu Thr Ser Asn Val Cys Ile His Phe Gln Pro Leu Thr Asp Leu Val

50

55

60

Phe Gln Cys Ile Ile Ile Leu
65 70

<210> 271
<211> 65
<212> PRT
<213> Homo sapiens

<400> 271
Met Glu Glu Ser Lys Ala Gln Arg Arg Arg Glu Thr Thr Trp Ser Val
1 5 10 15

Ser Leu Ser Gln Leu Ile Gln His Pro Thr Asn His Pro Ser His Ser
20 25 30

Leu Ser Ile Ser Leu Val Asn Trp Ser Thr Ile Cys Asn Cys Ser Gln
35 40 45

Val Pro Pro Asn Ser Leu Cys Arg Tyr Phe Ser Cys Val Phe His Ser
50 55 60

Leu
65

<210> 272
<211> 25
<212> PRT
<213> Homo sapiens

<400> 272
Met Val Pro Ile Ile Ser Tyr Val Lys Met Ser Cys Tyr Glu Lys Leu
1 5 10 15

Phe Leu Phe Gln Ser Cys Gln Cys Gln
20 25

<210> 273
<211> 13
<212> PRT
<213> Homo sapiens

<400> 273
Met Leu Leu Ser Tyr Ser Ala Gln Glu Tyr Leu Ser Lys

1

5

10

<210> 274

<211> 73

<212> PRT

<213> Homo sapiens

<400> 274

Met Lys Cys Val Ser Glu His Gln Arg Pro Ser Ile Leu Pro Leu Pro
 1 5 10 15

Phe Leu Val Val Tyr Lys Asn Ser Arg Leu Glu Glu Phe Arg Phe Val
 20 25 30

Ala His Phe Phe Pro Gln His Phe Phe Leu Leu Phe Phe Lys Met Tyr
 35 40 45

Cys Leu Phe Pro His Ser Val Thr Leu Asp Ile Gly Ile Phe Asn Cys
 50 55 60

Val Ile Phe Cys Cys Lys Lys Gly Lys
 65 70

<210> 275

<211> 465

<212> PRT

<213> Homo sapiens

<400> 275

Met Leu Gly Ser Met Ala Arg Lys Lys Pro Arg Asn Thr Ser Arg Leu
 1 5 10 15

Pro Leu Ala Leu Asn Pro Leu Lys Ser Lys Asp Val Leu Ala Val Leu
 20 25 30

Ala Glu Arg Asn Glu Ala Ile Val Pro Val Gly Ala Trp Val Glu Pro
 35 40 45

Ala Ser Pro Gly Ser Ser Glu Ile Pro Ala Tyr Thr Ser Ala Tyr Leu
 50 55 60

Ile Glu Glu Glu Leu Lys Glu Gln Leu Arg Lys Lys Gln Glu Ala Leu
 65 70 75 80

Lys His Phe Gln Lys Gln Val Lys Tyr Arg Val Asn Gln Gln Ile Arg
 85 90 95

Leu Arg Lys Lys Gln Gln Leu Gln Lys Ser Tyr Glu Arg Ala Gln Lys
 100 105 110
 Glu Gly Ser Ile Ala Met Gln Ser Ser Ala Thr His Leu Thr Ser Lys
 115 120 125
 Arg Thr Ser Val Phe Pro Asn Asn Leu Asn Val Ala Ile Gly Ser Ser
 130 135 140
 Arg Leu Pro Pro Ser Leu Met Pro Gly Asp Gly Ile Glu Asp Glu Glu
 145 150 155 160
 Asn Gln Asn Glu Leu Phe Gln Gln Gln Ala Gln Ala Leu Ser Glu Thr
 165 170 175
 Met Lys Gln Ala Arg His Arg Leu Ala Ser Phe Lys Thr Val Ile Lys
 180 185 190
 Lys Lys Gly Ser Val Phe Pro Asp Asp Gly Arg Lys Ser Phe Leu Thr
 195 200 205
 Arg Glu Glu Val Leu Ser Arg Lys Pro Ala Ser Thr Gly Ile Asn Thr
 210 215 220
 Gly Ile Arg Gly Glu Leu Pro Ile Lys Val His Gln Gly Leu Leu Ala
 225 230 235 240
 Ala Val Pro Tyr Gln Asn Tyr Met Glu Asn Gln Glu Leu Asp Tyr Glu
 245 250 255
 Glu Pro Asp Tyr Glu Glu Ser Ser Ser Leu Val Thr Asp Glu Lys Gly
 260 265 270
 Lys Glu Asp Leu Phe Gly Arg Gly Gln Gln Asp Gln Gln Ala Ile His
 275 280 285
 Ser Glu Asp Lys Asn Lys Pro Phe Ser Arg Val Gln Lys Val Lys Phe
 290 295 300
 Lys Asn Pro Leu Phe Val Leu Met Glu Glu Glu Glu Gln Lys Gln Leu
 305 310 315 320
 His Phe Glu Gly Leu Gln Asp Ile Leu Pro Glu Ala Gln Asp Tyr Phe
 325 330 335
 Leu Glu Ala Gln Gly Asp Leu Leu Glu Thr Gln Gly Asp Leu Thr Gly
 340 345 350

Ile Gln Ser Val Lys Pro Asp Thr Gln Ala Val Glu Met Lys Val Gln
 355 360 365

Val Thr Glu Pro Glu Gly Gln Ala Ile Glu Pro Glu Gly Gln Pro Ile
 370 375 380

Lys Thr Glu Thr Gln Gly Ile Met Leu Lys Ala Gln Ser Ile Glu Leu
 385 390 395 400

Glu Glu Gly Ser Ile Val Leu Lys Thr Gln Asp Phe Leu Pro Thr Asn
 405 410 415

Gln Ala Leu Leu Thr Lys Asn Gln Asp Val Leu Leu Lys Asp His Cys
 420 425 430

Val Leu Pro Lys Asp Gln Ser Ile Leu Leu Lys Tyr Gln Asp Gln Asp
 435 440 445

Phe Leu Pro Arg Asp Gln His Val Leu His Lys Asp Gln Asp Ile Leu
 450 455 460

Pro
 465

<210> 276
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 276
 Met Asn Lys Gln Lys Ile Lys Met Phe Arg Met Lys Ile Leu Leu Lys
 1 5 10 15

Trp Ser Leu Glu Ile Thr Val Met Ser Ala Leu Gly Ile Glu Ser Arg
 20 25 30

Ile Asn Ser Gln Ile Pro
 35

<210> 277
 <211> 170
 <212> PRT
 <213> Homo sapiens

<400> 277

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Met Asp Ile Glu Arg Glu Gln Val Lys Glu Gln Gln Arg Gln Lys Glu
  1                      5                      10                      15

Gln Lys Lys Lys Ile Glu Lys Ile Lys Lys Lys Arg Glu Gln Glu Cys
      20                      25                      30

Tyr Ala Ala Glu Gln Arg Ile Leu Arg Met Asn Phe His Glu Asp Pro
      35                      40                      45

Tyr Ser Gly Glu Lys Leu Ser Glu Ile Leu Ala Gln Leu Gln Leu Gln
      50                      55                      60

Glu Ile Lys Gly Thr Arg Glu Lys Gln Gln Arg Glu Lys Glu Tyr Leu
      65                      70                      75                      80

Arg Tyr Val Glu Ala Leu Arg Ala Gln Ile Gln Glu Lys Met Gln Leu
      85                      90                      95

Tyr Asn Ile Thr Leu Pro Pro Leu Cys Cys Cys Gly Pro Asp Phe Trp
      100                     105                     110

Asp Ala His Pro Asp Thr Cys Ala Asn Asn Cys Ile Phe Tyr Lys Asn
      115                     120                     125

His Arg Ala Tyr Thr Arg Ala Leu His Ser Phe Ile Asn Ser Cys Asp
      130                     135                     140

Val Pro Gly Gly Asn Ser Thr Leu Arg Val Ala Ile His Asn Phe Ala
      145                     150                     155                     160

Ser Ala His Arg Arg Thr Leu Lys Asn Leu
      165                     170

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<210> 278

<211> 173

<212> PRT

<213> Homo sapiens

<400> 278

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Ala Tyr Asp Arg Tyr Gln Ser Gly Leu Ser Thr Glu Phe Gln Ala Pro
  1                      5                      10                      15

Leu Ala Phe Gln Ser Asp Val Asp Lys Glu Glu Asp Lys Lys Glu Arg
      20                      25                      30

Gln Lys Gln Tyr Leu Arg His Arg Arg Leu Phe Met Asp Ile Glu Arg
      35                      40                      45

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Glu Gln Val Lys Glu Gln Gln Arg Gln Lys Glu Gln Lys Lys Lys Ile
50 55 60

Glu Lys Ile Lys Lys Lys Arg Glu Gln Glu Cys Tyr Ala Ala Glu Gln
65 70 75 80

Arg Ile Leu Arg Met Asn Phe His Glu Asp Pro Tyr Ser Gly Glu Lys
85 90 95

Leu Ser Glu Ile Leu Ala Gln Leu Gln Leu Glu Ile Lys Gly Thr
100 105 110

Arg Glu Lys Gln Gln Arg Glu Lys Glu Tyr Leu Arg Tyr Val Glu Ala
115 120 125

Leu Arg Ala Gln Ile Gln Glu Lys Met Gln Leu Tyr Asn Ile Thr Leu
130 135 140

Pro Pro Leu Cys Cys Cys Gly Pro Asp Phe Trp Asp Ala His Pro Asp
145 150 155 160

Thr Cys Ala Asn Asn Cys Ile Phe Tyr Lys Asn His Arg
165 170

<210> 279

<211> 15

<212> PRT

<213> Homo sapiens

<400> 279

Met Ile Ser Arg Ile Leu Pro Phe Ile Tyr Ser Thr Ser Ile Arg
1 5 10 15

<210> 280

<211> 11

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (8)

<400> 280

Met Asp Thr Gly Leu Phe Phe Xaa Gly Ala Gly
1 5 10

<210> 281
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 281
 Met Ala Val Ser Leu Phe Leu Ser Ala Asp Pro Ser Met Thr Leu Ile
 1 5 10 15
 Arg Phe Pro Phe Ser Tyr Asn Ser Cys Pro Trp Ile Gln Trp Pro Ser
 20 25 30
 Phe Phe Ser Phe Ala Leu Phe Ser Val Thr Val His His Ile Phe Tyr
 35 40 45
 Thr Ala Val Asp Val Ile Tyr Ser Asn Asp Val Pro Val Pro Phe Val
 50 55 60
 Cys Leu Phe Leu Glu Thr Pro Ser Gly Ala Phe His Leu Pro Gly Ser
 65 70 75 80
 Asn Leu Asp Trp Leu Leu
 85

<210> 282
 <211> 1339
 <212> PRT
 <213> Homo sapiens

<400> 282
 Met Ala Val Tyr Cys Tyr Ala Leu Asn Ser Leu Val Ile Met Asn Ser
 1 5 10 15
 Ala Asn Glu Met Lys Ser Gly Gly Gly Pro Gly Pro Ser Gly Ser Glu
 20 25 30
 Thr Pro Pro Pro Pro Arg Arg Ala Val Leu Ser Pro Gly Ser Val Phe
 35 40 45
 Ser Pro Gly Arg Gly Ala Ser Phe Leu Phe Pro Pro Ala Glu Ser Leu
 50 55 60
 Ser Pro Glu Glu Pro Arg Ser Pro Gly Gly Trp Arg Ser Gly Arg Arg
 65 70 75 80

Gln Pro Pro Glu Ala Leu Val Glu Arg Gln Gly Gln Phe Leu Gly Ser
340 345 350

Glu Thr Ser Pro Ala Pro Glu Arg Gly Gly Pro Arg Asp Gly Glu Pro
355 360 365

Pro Gly Lys Met Gly Lys Gly Tyr Leu Pro Cys Gly Met Pro Gly Ser
370 375 380

Gly Glu Pro Glu Val Gly Lys Arg Pro Glu Glu Thr Thr Val Ser Val
385 390 395 400

Gln Ser Ala Glu Ser Ser Asp Ser Leu Ser Trp Ser Arg Leu Pro Arg
405 410 415

Ala Leu Ala Ser Val Gly Pro Glu Glu Ala Arg Ser Gly Ala Pro Val
420 425 430

Gly Gly Gly Arg Trp Gln Leu Ser Asp Arg Val Glu Gly Gly Ser Pro
435 440 445

Thr Leu Gly Leu Leu Gly Gly Ser Pro Ser Ala Gln Pro Gly Thr Gly
450 455 460

Asn Val Glu Ala Gly Ile Pro Ser Gly Arg Met Leu Glu Pro Leu Pro
465 470 475 480

Cys Trp Asp Ala Ala Lys Asp Leu Lys Glu Pro Gln Cys Pro Pro Gly
485 490 495

Asp Arg Val Gly Val Gln Pro Gly Asn Ser Arg Val Trp Gln Gly Thr
500 505 510

Met Glu Lys Ala Gly Leu Ala Trp Thr Arg Gly Thr Gly Val Gln Ser
515 520 525

Glu Gly Thr Trp Glu Ser Gln Arg Gln Asp Ser Asp Ala Leu Pro Ser
530 535 540

Pro Glu Leu Leu Pro Gln Asp Pro Asp Lys Pro Phe Leu Arg Lys Ala
545 550 555 560

Cys Ser Pro Ser Asn Ile Pro Ala Val Ile Ile Thr Asp Met Gly Thr
565 570 575

Gln Glu Asp Gly Ala Leu Glu Glu Thr Gln Gly Ser Pro Arg Gly Asn
580 585 590

Leu	Leu	Ile	Leu	Gly	Leu	Gly	Leu	Ser	Glu	Ile	His	Arg	Ser	Ser	Leu
850					855					860					
Gln	Val	Gln	Pro	Ala	Gly	Gly	Val	His	Thr	Glu	Ala	Ala	Ala	Pro	Gly
865					870					875					
Ala	Pro	Gly	His	Gln	Gly	Ala	Met	Ser	Val	Thr	Tyr	Asp	Ala	Leu	Arg
885					890					895					
Glu	Lys	Gln	Gln	Leu	Ser	Lys	Val	Gly	Asp	Leu	Pro	Ala	Leu	Thr	Trp
900					905					910					
Pro	Gly	Pro	Leu	Ile	Ser	Gln	Met	Pro	Gly	Val	Leu	Asp	Ser	Cys	Arg
915					920					925					
Leu	Cys	Ser	Leu	Gly	Asp	Ile	Glu	Lys	Ser	Lys	Ser	Trp	Arg	Lys	Ile
930					935					940					
Lys	Asn	Met	Val	His	Trp	Ser	Pro	Phe	Val	Met	Ser	Phe	Lys	Lys	Lys
945					950					955					
Tyr	Pro	Trp	Ile	Gln	Leu	Ala	Gly	His	Ala	Gly	Ser	Phe	Lys	Ala	Ala
965					970					975					
Ala	Asn	Gly	Arg	Ile	Leu	Lys	Lys	His	Cys	Glu	Ser	Glu	Gln	Arg	Cys
980					985					990					
Leu	Asp	Arg	Leu	Met	Val	Asp	Val	Leu	Arg	Pro	Phe	Val	Pro	Ala	Tyr
995					1000					1005					
His	Gly	Asp	Val	Val	Lys	Asp	Gly	Glu	Arg	Tyr	Asn	Gln	Met	Asp	Asp
1010					1015					1020					
Leu	Leu	Ala	Asp	Phe	Asp	Ser	Pro	Cys	Val	Met	Asp	Cys	Lys	Met	Gly
1025					1030					1035					
Ile	Arg	Gln	Gln	Gln	Asp	Phe	Ala	Gly	Asp	His	Met	Glu	Asn	Asn	Pro
1045					1050					1055					
Ser	Gly	Val	His	Ser	Asp	Leu	Ala	Lys	Lys	Ala	Gly	Glu	Cys	Gly	Glu
1060					1065					1070					
Gly	Leu	Ser	Leu	Thr	Phe	Leu	Trp	Ala	Ser	Arg	Pro	Thr	Ile	Gln	Leu
1075					1080					1085					
Ala	Pro	Pro	Val	Asp	Ile	Ser	Pro	Gln	Pro	Leu	Ser	Ser	Pro	Gly	Gln
1090					1095					1100					

Thr Tyr Leu Glu Glu Glu Leu Thr Lys Ala Arg Lys Lys Pro Ser Leu
 1105 1110 1115 1120
 Arg Lys Asp Met Tyr Gln Lys Met Ile Glu Val Asp Pro Glu Ala Pro
 1125 1130 1135
 Thr Glu Glu Glu Lys Ala Gln Arg Ala Val Thr Lys Pro Arg Tyr Met
 1140 1145 1150
 Gln Trp Arg Glu Thr Ile Ser Ser Thr Ala Thr Leu Gly Phe Arg Ile
 1155 1160 1165
 Glu Gly Ile Lys Leu Arg Gly Ser Ala Trp Gly Ala Leu Pro Thr Ala
 1170 1175 1180
 Pro Gly Ser Arg Pro Leu Leu His Pro Gly Leu Leu Pro Gln Pro Gln
 1185 1190 1195 1200
 Val Leu Pro Val Leu Ser Lys Ala Ala Thr Lys Glu Asp Gly Thr Val
 1205 1210 1215
 Asn Arg Asp Phe Lys Lys Thr Lys Thr Arg Glu Gln Val Thr Glu Ala
 1220 1225 1230
 Phe Arg Glu Phe Thr Lys Gly Asn His Asn Ile Leu Ile Ala Tyr Arg
 1235 1240 1245
 Asp Arg Leu Lys Ala Ile Arg Thr Thr Leu Glu Val Ser Pro Phe Phe
 1250 1255 1260
 Lys Cys His Glu Val Ile Gly Ser Ser Leu Leu Phe Ile His Asp Lys
 1265 1270 1275 1280
 Lys Glu Gln Ala Lys Val Trp Met Ile Asp Phe Gly Lys Thr Thr Pro
 1285 1290 1295
 Leu Pro Glu Gly Gln Thr Leu Gln His Asp Val Pro Trp Gln Glu Gly
 1300 1305 1310
 Asn Arg Glu Asp Gly Tyr Leu Ser Gly Leu Asn Asn Leu Val Asp Ile
 1315 1320 1325
 Leu Thr Glu Met Ser Gln Asp Ala Pro Leu Ala
 1330 1335